

THE Hartman Mfg. Co.

MANUFACTURERS
OF
LAWN
FENCES

ELLWOOD CITY, PENNSYLVANIA, U.S.A.

CATALOGUE No. 16.



Plate 2500.

Photograph of a Pennsylvania Home as it appeared until the owner became convinced that the **wretched fence** in front of it was not only an offence against all modern standards of neatness and beauty, but a **serious** and **costly** barrier to realizing the **real** value of his property.



Plate 2501.

Photograph of the same Home the day after its owner had torn down the "ancient landmark" and erected a "**Hartman**" **Steel Picket Lawn Fence**, which invariably **adds value to one's property more** than the **cost** of the Fence.



THE "HARTMAN" STEEL, PICKET FENCES have been made for eleven years and are extensively used throughout the world for the protection and adornment of **Lawns, Schools, Parks, Cemeteries, Cemetery Lots** and public and private enclosures generally. Their high merits have been strictly maintained, and they remain to-day unrivalled in combined strength, beauty, durability and low cost.

The Steel Picket Fence retired forever the unsightly wooden "paling" fence, a prey to all the elements of decay and destruction, and placed within the reach of all a *lasting protection* to enclosures *without concealing* them.

It is made in seven heights and three sizes of rod—is capable of several different constructions, and of being erected on uneven as well as level surfaces—on stone walls or wood bases as well as in the ground—on wood posts and rail, or complete with our steel posts and rail. Any good mechanic can erect it properly by following the instructions given on page 5.

This catalogue is intended to illustrate and explain its features, and we cordially invite correspondence, that we may submit definite quotations on the material required for any proposed fence.

Being the largest Lawn Fence makers in America, we are able to treat the fence question with entire satisfaction to those who contemplate using fencing material, if they will only have the goodness to give us the opportunity, which we respectfully solicit. We make other useful goods of surpassing quality as shown in the Index.

JANUARY 1, 1901.

THE HARTMAN MANUFACTURING COMPANY of Ellwood City,
ELLWOOD CITY, PENNA., U.S.A.
AGENCY AND EXPORT DEP'T, 309 BROADWAY, NEW YORK.

Catalogue No. 15.

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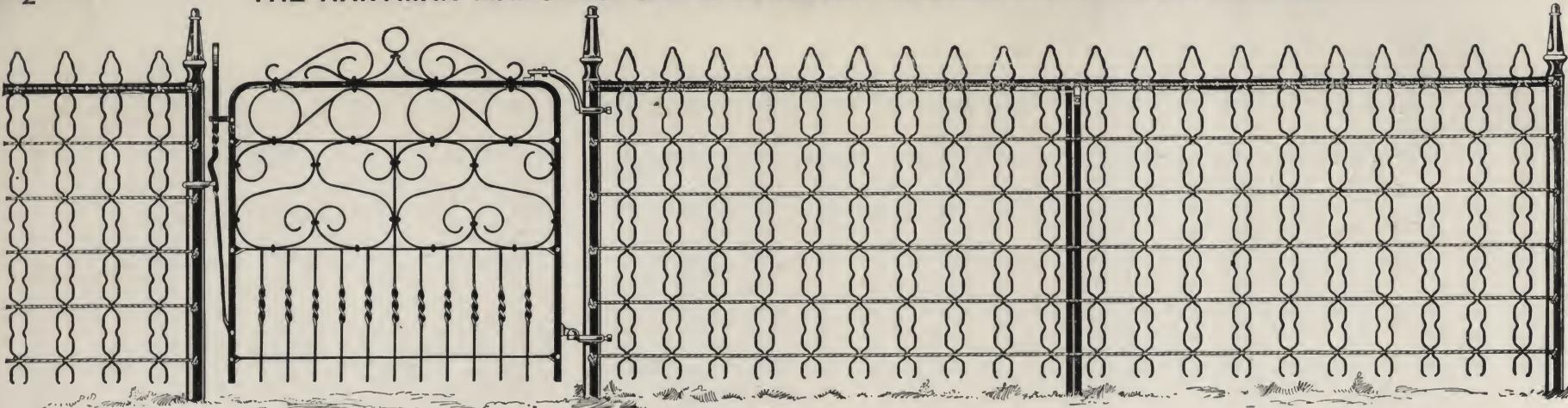


Fig. 2602. "HARTMAN" Steel Picket Fence.

This is the "Standard" style of the "Hartman" Steel Picket Fence, the style most generally used for fencing of **residence lots, cemeteries, parks, schools, churches, public grounds, etc.**

The Fence is made of Steel—Galvanized Rod. (For actual size of Picket see Page 5.)

The Posts are Steel.

The Top Rail is Wrought Iron. } Both treated in the most effective manner to prevent rust or decay.

The Gates are all Steel and all are beautifully enameled in black.

Each Post is provided with an **anchor** to insure rigidity.

The Line Posts are made from a Y shaped angle which insures great strength.

Posts are driven in the ground from 26 to 32 inches.

STYLE No. 1.

IMPORTANT—These prices include the **Fence**, the **Top Rail** and the **Line Posts** about 9 feet apart, and all regular fittings pertaining thereto. **Ornamental Posts**, which are required at all gates, corners, ends or angles are **EXTRA**, \$3.50 each.

Gates. (See Price List, Pages 6 and 7, Figs. 60, 61, 62 and 63) are also **EXTRA**.

In computing the price of the fence we deduct the total width of gate space from the total length of fence.

Line Posts are furnished so as to be placed about 9 feet apart, except in the 55" and 61" heights, in which we furnish sufficient Line Posts to be placed about 8 feet apart.

See Photographic Views. Pages 8 to 21. **DISCOUNT**

PRICE LIST.
(Subject to Change without Notice.)

HEIGHT. Inches.	PRICE Per Lineal Foot, 3" be- tween Pickets.	EXTRA CLOSE. 2" Between Pickets. Per Lineal Foot.
25	.63	.73
31	.67	.77
37	.71	.81
43	.77	.89
49	.85	.99
55	.98	.12
61	1.08	1.24

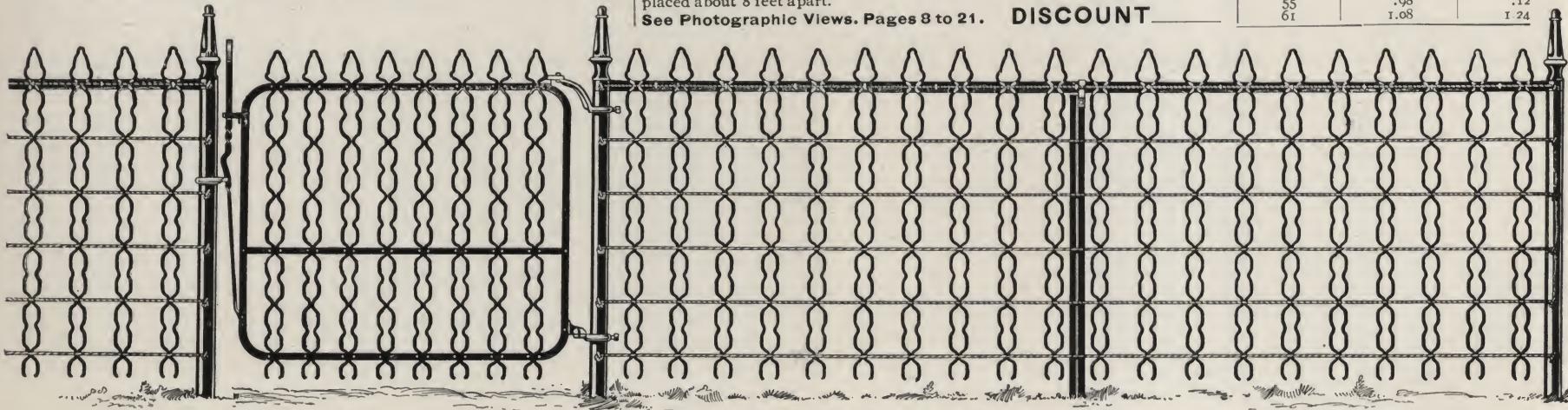


Fig. 2603. "HARTMAN" Steel Picket Fence. Extra Heavy. **STYLE No. 2.**

This heaviest of our styles of Steel Picket Fence is used for the same purposes as the Style No. 1, but is particularly adapted to fencing **parks, schools, churches, public grounds, cemeteries**, as well as **residence lawns, villas, etc.** Posts and Rail are same weight for all three styles.

The Fence is made of Steel—Galvanized Rod. (For actual size of Picket see Page 5.)

The Posts are Steel. } Both treated in the most effective manner

The Top Rail is Wrought Iron } to prevent rust or decay.

The Gates are all Steel, and all are beautifully enameled in black.

Each Post is provided with an **anchor** to insure rigidity.

The Line Posts are made from a Y shaped angle which insures great strength.

Posts are driven in the ground from 26 to 32 inches.

See Pictures on Pages 8 to 21.

PRICE LIST.
(Subject to Change without Notice.)

HEIGHT. Inches.	PRICE Per Lineal Foot, 3" Be- tween Pickets.	EXTRA CLOSE. 2" between Pickets. Per Lineal Foot.
25	.69	.81
31	.77	.89
37	.85	1.01
43	.91	1.09
49	.99	1.17
55	1.12	1.34
61	1.24	1.46

DISCOUNT

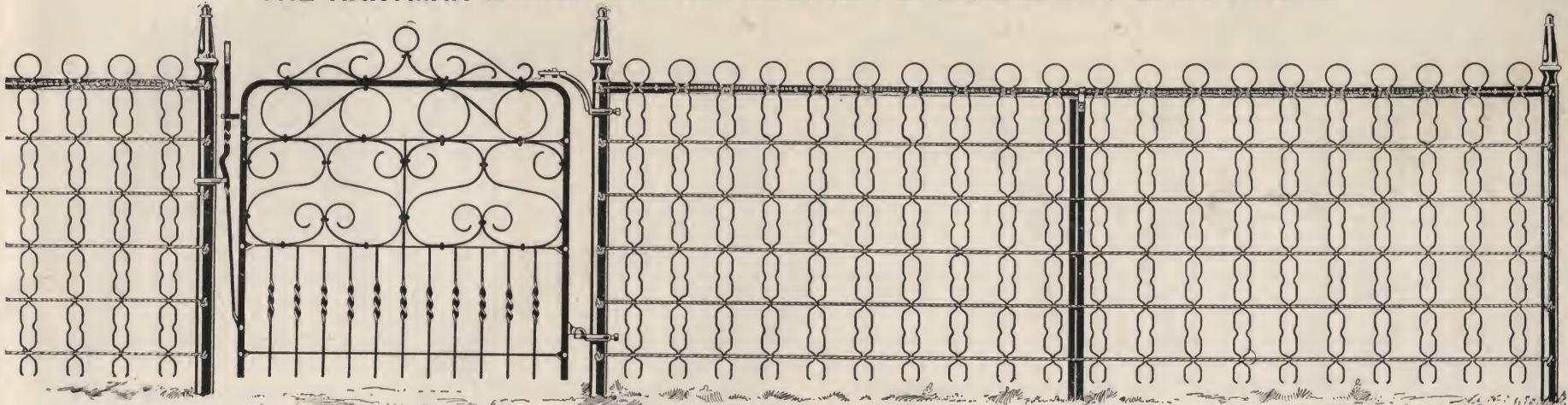


Fig. 2604. "HARTMAN" Steel Picket Fence. **STYLE No. 3.**

This, the lightest of the three Styles of our Steel Picket Fence, is best adapted for fencing DIVISION LINES, and for the REAR PORTIONS of CEMETERIES and all other ENCLOSURES, and for FRONT FENCING in country places where not subjected to hard usage peculiar to cities.

The Fence is made of Steel—Galvanized. (For actual size of Picket see page 5.)

The Posts are Steel. Both are treated in the most effective manner to prevent

The Top Rail is Wrought Iron. } rust or decay.

The Gates are all Steel, and all are beautifully enameled in black.

Each Post is provided with an Anchor to insure rigidity.

The Line Posts are made from a Y shaped Angle which insures great strength.

Posts are driven in the ground from 26 to 32 inches. See Pictures on pages 8 to 21.

IMPORTANT. These prices include the Fence, the Top Rail and the Line Posts, about 9 feet apart, and all regular fittings pertaining thereto.

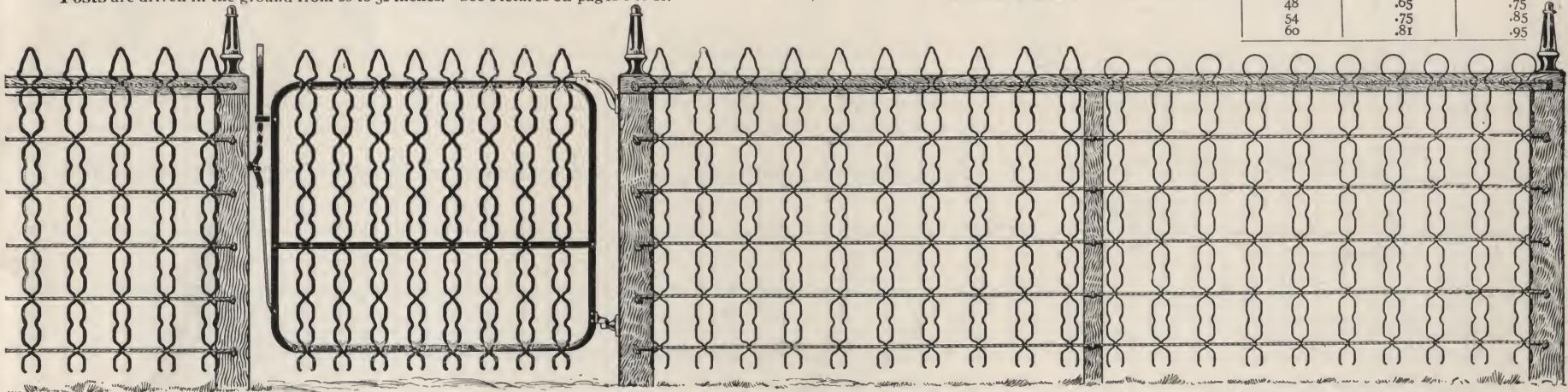
Ornamental Posts—which are required at all Gates, Corners, Ends or Angles—are EXTRA, \$3.50 each.

Gates. (See Price List, pages 6 and 7, Figs. 60, 61, 62 and 63) are also EXTRA.

DISCOUNT

PRICE LIST. (Subject to Change without Notice.)

HEIGHT, Inches.	PRICE per Lineal Foot. 3" between Pickets.	EXTRA CLOSE 2" between Pickets. Per Lineal Foot.
24	\$0.49	\$0.59
30	.53	.63
.36	.57	.67
.42	.61	.71
48	.65	.75
54	.75	.85
60	.81	.95



This Section Shows Style No. 2.

Fig. 2605. "HARTMAN" Steel Picket Fence.

While our *Complete Fences* are more desirable, i. e., All Steel Frame, yet our Steel Picket Fence and Gates are extensively erected on posts and rail of wood (but we do not furnish wood posts and rail) and we therefore set forth a schedule of prices of the *Fence* (or *fabric*) only for the benefit of those who desire that construction.

Never erect these fences without Top Rail.

POSTS. Place posts about 9 feet apart.

For the sake of neatness use sawed or turned Posts. Bottom Rail is not needed.

For actual sizes of Pickets see page 5.

This Section Shows Style No. 1.

**STYLES No. 1, 2 AND 3.
(FABRIC ONLY)
ON WOOD POSTS AND RAIL.**

IMPORTANT. These prices are for the *Fence* (or *fabric*) ONLY.

Gates (Price list, pages 6 and 7) are EXTRA.

For actual sizes of the Pickets see page 5.

Put up in 300 foot rolls for stock.

This Section Shows Style No. 3.
PRICE LIST, PER LINEAL FOOT.
(Subject to Change without Notice.)

HEIGHT, Inches.	Style No. 1.		Style No. 2.		Style No. 3.	
	3" Mesh.	Ex. Close. 2" between Pickets.	3" Mesh.	Ex. Close. 2" between Pickets.	3" Mesh.	Ex. Close. 2" between Pickets.
25	\$0.32	\$0.42	\$0.38	\$0.50	\$0.18	\$0.28
31	.36	.46	.46	.58	.22	.32
37	.40	.50	.54	.70	.26	.36
43	.46	.58	.60	.78	.30	.40
49	.54	.68	.68	.86	.34	.44
55	.64	.78	.78	.98	.42	.52
61	.74	.90	.90	1.10	.48	.62

DISCOUNT

THE HARTMAN MANUFACTURING COMPANY OF ELLWOOD CITY. LAWN FENCES.

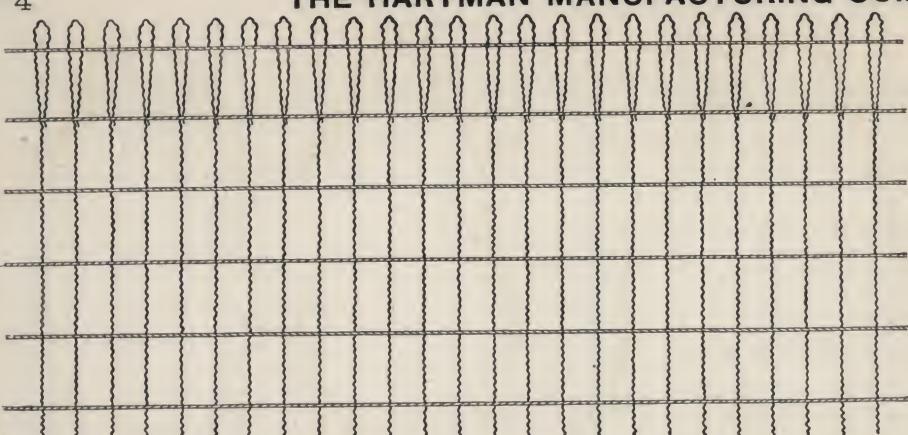


Fig. 2606. "HARTMAN" Crimped Picket Fence No. 4.

The Pickets of this Style are made of No. 10 Steel Rod, 2 1/2 inches apart, and with the **Gates** to match (see Figs. 190 and 191, page 7) are usually erected on wooden posts and top rail, but like the other three styles is also erected on our steel posts and top rail.

It is used for general lawn purposes where a heavy fence is not required. For actual size of Pickets see Fig. 80 1/2, page 5. Made in 400 foot rolls for Stock.

DISCOUNT

PRICE LIST

(Subject to Change without Notice.)

These prices are for the **Fabric only.**

Height.	Price per Lineal Foot.
29 inches	14 cents
35 inches	17 cents
41 inches	20 cents
47 inches	23 cents

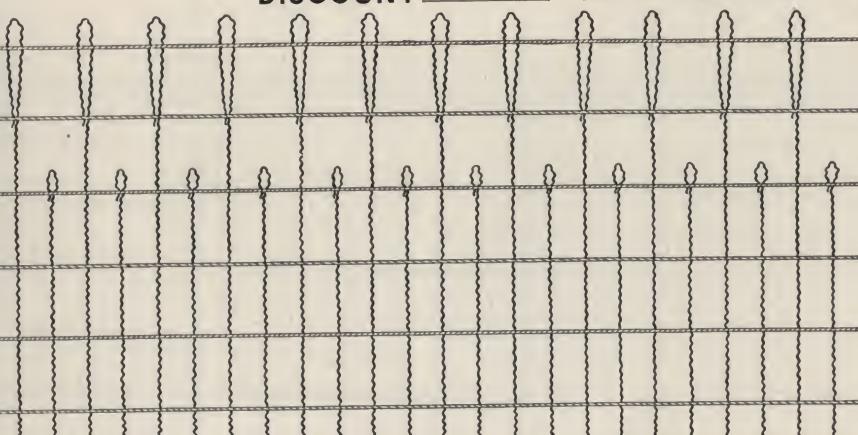


Fig. 2608. "HARTMAN" Crimped Picket Fence No. 6.

The Pickets of this Style are made of No. 10 Steel Rod, 2 1/2 inches apart, and with the **Gates** to match (see Figs. 190 and 191, page 7) are usually erected on wooden posts and top rail, but like the other three styles is also erected on our steel posts and top rail.

It is used for general lawn purposes where a heavy fence is not required. For actual size of Pickets see Fig. 80 1/2, page 5. Made in 400 foot rolls for Stock.

DISCOUNT

Fig. 2607. "HARTMAN" Crimped Picket Fence No. 5.

The Pickets of this style are made of No. 8 1/2 Steel Rod, 2 1/2 inches apart, and the Fence and Gates to match (see Figs. 190 and 191, page 7) are usually erected on posts and top rail of wood, although extensively erected on our steel posts and top rail.

It is used for general Lawn and Door Yard purposes. For actual size of Pickets, see Fig. 80 1/2, page 5. Made in 400 foot rolls for Stock.

PRICE LIST

(Subject to Change without Notice.)

These prices are for the **Fabric only.**

Height.	Price per Lineal Foot.
29 inches	19 cents
35 inches	23 cents
41 inches	26 cents
47 inches	30 cents

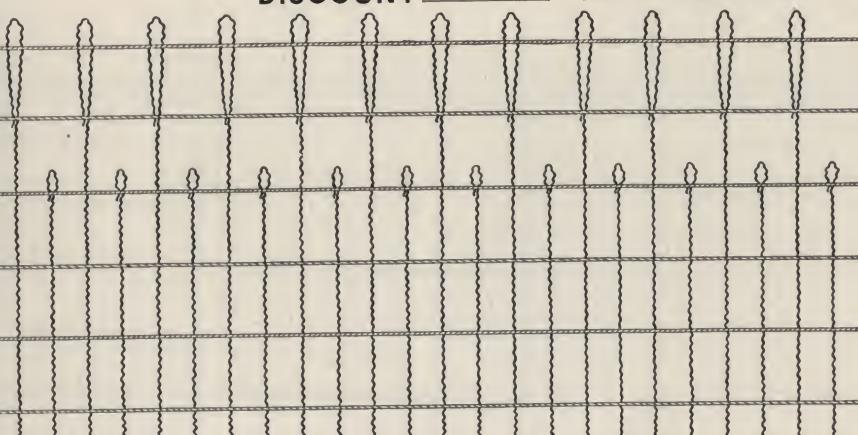


Fig. 2609. "HARTMAN" Crimped Picket Fence No. 7.

The Pickets of this Style are made of No. 8 1/2 Steel Rod, 2 1/2 inches apart, and the Fence and Gates to match (see Figs. 190 and 191, page 7) are usually erected on posts and rail of wood, although extensively erected on our steel posts and top rail.

It is used for general Lawn and Door Yard purposes. For actual size of Pickets see Fig. 80 1/2, page 5. Made in 400 foot rolls for Stock.

PRICE LIST

(Subject to Change without Notice.)

These prices are for the **Fabric only.**

Height.	Price per Lineal Foot.
29 inches	19 cents
35 inches	23 cents
41 inches	26 cents
47 inches	30 cents

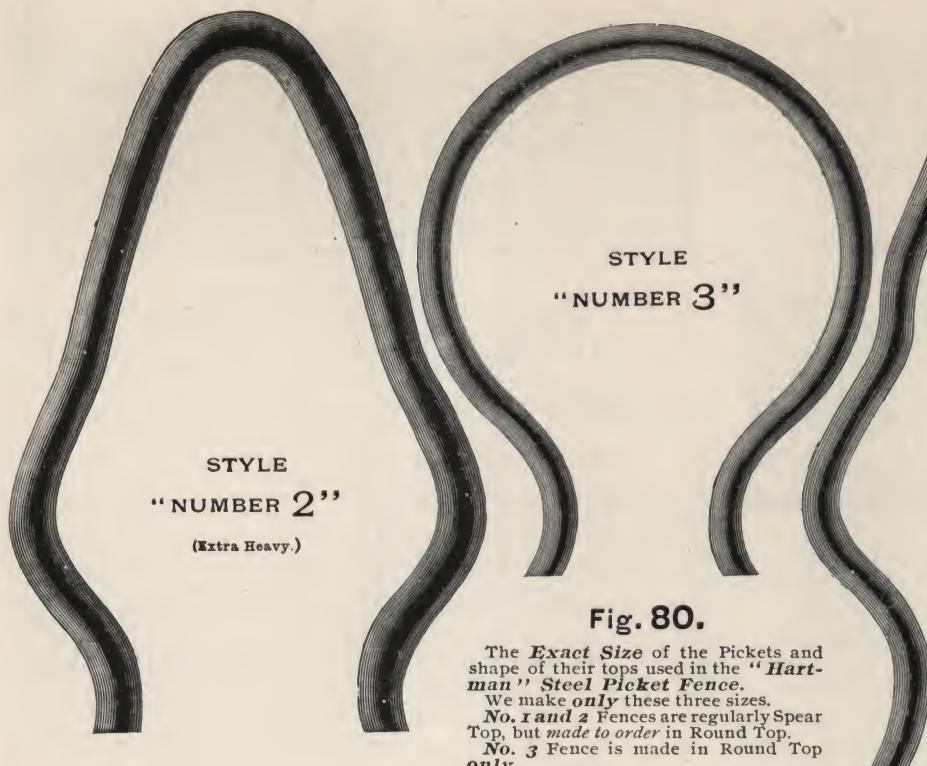


Fig. 80.

The *Exact Size* of the Pickets and shape of their tops used in the "Hartman" Steel Picket Fence. We make *only* these three sizes. No. 1 and 2 Fences are regularly Spear Top, but made to order in Round Top. No. 3 Fence is made in Round Top only.

DIRECTIONS FOR ERECTING The "Hartman" Steel Picket Fence.

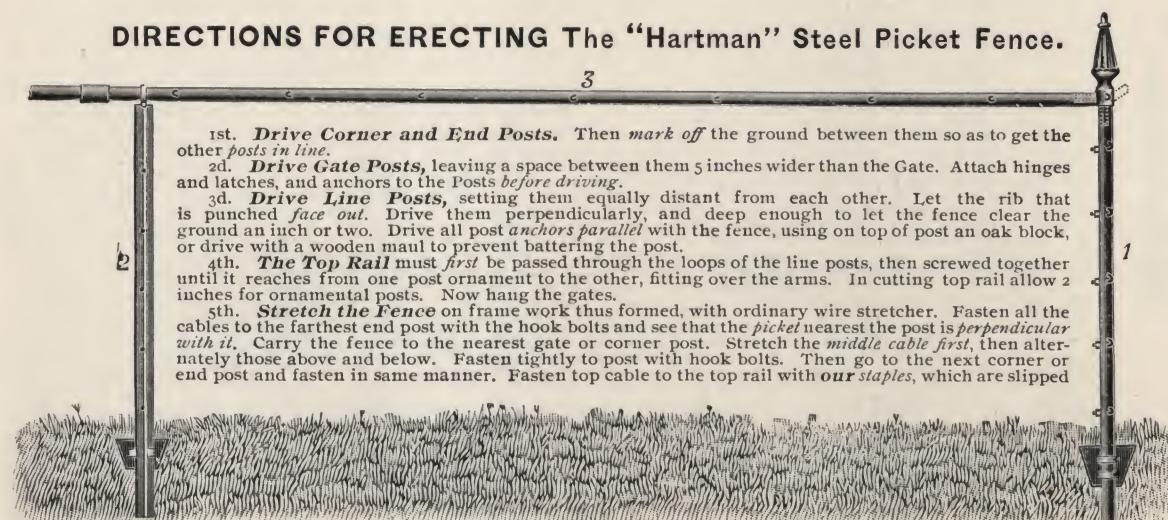
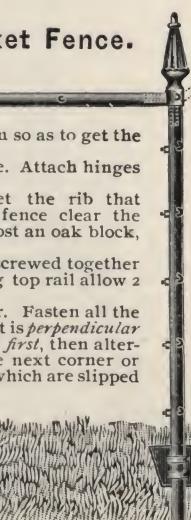


Fig. 54.



The *Exact Size* of the Pickets and shape of their tops as used in the "Hartman" Crimped Picket Fence. We make *only* these two sizes. The tops of the short pickets in styles 6 and 7 (see page 4) are looped shorter than the main pickets, but are of the same respective sizes of rod as they.



Fig. 80 1/2.

PRICE :
Each.....\$3.00
DISCOUNT

Fig. 70.

Lever Stretcher for use in erecting our Steel Picket Fence, Crimped Picket Fence, Stockade Fence or Panel Wire, etc.

over the cables and driven into the holes. Keep the posts *perpendicular*, no matter how hilly the ground. (This applies as well to the Crimped Picket Fence when it is erected on our Steel Posts and Top Rail.)

We paint our posts and top rail black.

It is essential that the fence be *properly erected* and to this end instructions should be carefully followed. Inquiry is earnestly invited, should any instruction be not fully understood.

Note.—Line Posts should be placed about 9 feet apart; or they must be placed equally distant apart in any given section of the fence between Ornamental Posts; consequently, the spacing to determine the distance apart, should be done before any of the posts are driven.

For setting posts in a stone wall or for any other special construction, special directions will be given upon application.

THE HARTMAN MANUFACTURING COMPANY OF ELLWOOD CITY. GATES.

The **Gates**, both Double and Single, in the several Styles shown on this and the next page, are a most attractive feature of our Lawn Fences. They are made **wholly of Steel** and finished with a brilliant black enamel. They are made in heights corresponding to the heights of our Fences and in widths to suit the user.

The **Single Walk Gates** have adjustable top hinge and spring latch, making them self-closing and self-latching.

The **Hinges** and **Latches** (which are included in the price of the gates) are furnished for either wood posts or for our iron posts.

The **Gates** are all **strong, beautiful, and durable**. Styles 60, 61, 62, and 63 are made for our Steel Picket Fence; Styles 190, 191, 192, and 193 for our Crimped Picket Fence; and Styles 504 and 505 for our Stockade Fence.

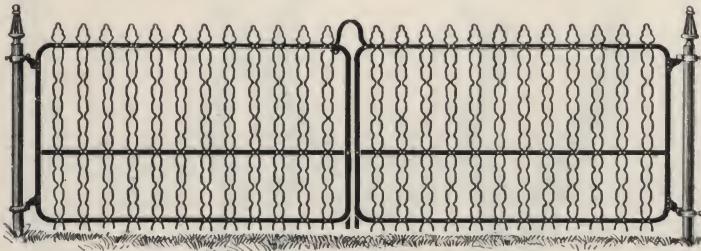


Fig. 60.

STYLE 60, DOUBLE DRIVE GATE.

Made entirely of steel. Enameled Black. Matches any style of our Steel Picket Fence.

Order by Style Number, and always specify whether fittings for Wood or Iron Posts are desired.

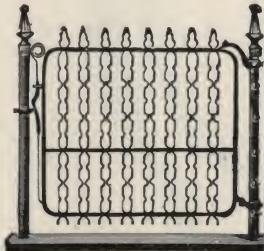


Fig. 61.

STYLE 61, SINGLE WALK GATE.

All steel. Enameled Black. Self-closing and self-latching. Matches any style of our Steel Picket Fence.

Order by Style Number, and always specify whether fittings for Wood or Iron Posts are desired.



Fig. 62.

STYLE 62, DOUBLE DRIVE GATE.

Made entirely of steel. Enameled Black. Matches by contrast any style of our Steel Picket Fence.

Order by Style Number, and always specify whether fittings for Wood or Iron Posts are desired.



Fig. 63.

STYLE 63, SINGLE WALK GATE.

All steel. Enameled Black. Self-closing and self-latching. Matches by contrast any style of our Steel Picket Fence.

Order by Style Number, and always specify whether fittings for Wood or Iron Posts are desired.

PRICE LIST.

(Subject to Change without Notice.)

HEIGHT, Inches.	SINGLE WALK GATES. Plain Pattern.			DOUBLE DRIVE GATES. Plain Pattern.
	3 ft. Wide.	3½ ft. Wide.	4 ft. Wide.	9 ft. Wide.
25	\$ 7.00	\$ 8.00	\$10.00	\$22.00
31	7.00	9.00	10.00	22.00
37	7.00	9.00	10.00	22.00
43	9.00	10.00	11.00	26.00
49	9.00	10.00	11.00	26.00
55	10.00	11.00	12.00	26.00
61	11.00	13.00	14.00	26.00

Special Widths made to fit certain spaces other than those given in schedule:—

\$2.60 per lineal foot of width for 25", 31" and 37" heights.

\$3.30 per lineal foot of width for 43", 49", 55" and 61" heights.

DISCOUNT

PRICE LIST.

(Subject to Change without Notice.)

HEIGHT, Inches.	SINGLE WALK GATES. Scroll Pattern.			DOUBLE DRIVE GATES. Scroll Pattern.
	3 ft. Wide.	3½ ft. Wide.	4 ft. Wide.	9 ft. Wide.
25	\$8.75	\$10.00	\$12.50	\$27.50
31	8.75	11.25	12.50	27.50
37	8.75	11.25	12.50	27.50
43	11.25	12.50	13.75	32.50
49	11.25	12.50	13.75	32.50
55	12.50	13.75	15.00	32.50
61	13.75	16.25	17.50	32.50

Special Widths made to fit certain spaces other than those given in schedule:—

\$3.25 per lineal foot for of width 25", 31" and 37" heights.

\$4.13 per lineal foot of width for 43", 49", 55" and 61" heights.

DISCOUNT

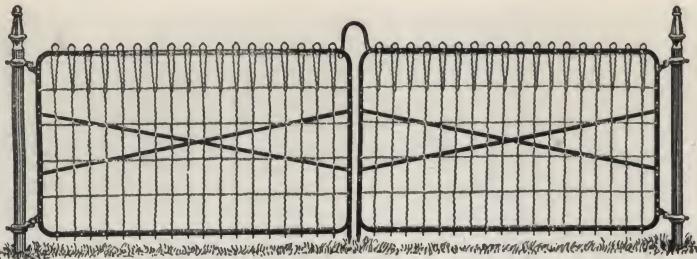


Fig. 190.

STYLE 190, DOUBLE DRIVE GATE.

Made entirely of steel. Enameled Black. Matches Nos. 4 and 5 Crimped Picket Fence.

Order by Style Number, and always specify whether fittings for Wood or Iron Posts are desired.

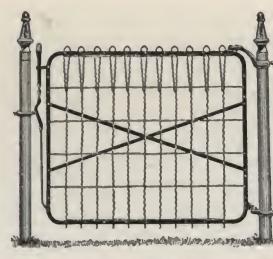


Fig. 191.

STYLE 191, SINGLE WALK GATE.

All steel. Enameled Black. Self-closing and self-latching. Matches Nos. 4 and 5 Crimped Picket Fence.

Order by Style Number, and always specify whether fittings for Wood or Iron Posts are desired.

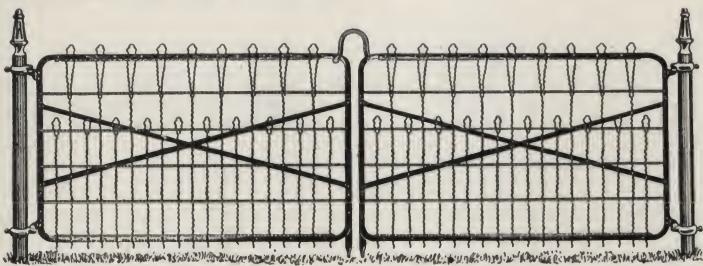


Fig. 192.

STYLE 192, DOUBLE DRIVE GATE.

Made entirely of Steel. Enameled Black. Matches Nos. 6 and 7 Crimped Picket Fence.

Order by Style Number, and always specify whether fittings for Wood or Iron Posts are desired.

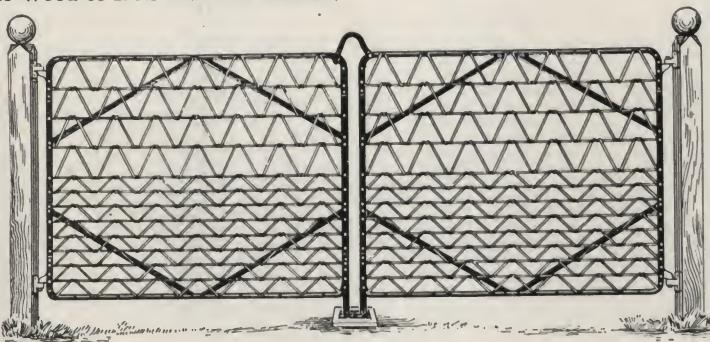


Fig. 505.

STYLE 505, DOUBLE DRIVE GATE.

Enameled Black. Matches Styles A and C Stockade.

Order by Style Number, and always specify whether fittings for Wood or Iron Posts are desired.

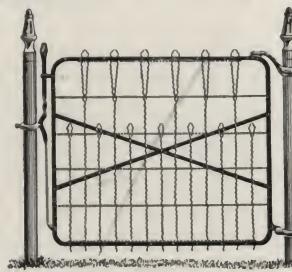


Fig. 193.

STYLE 193, SINGLE WALK GATE.

All steel. Enameled Black. Self-closing and self-latching. Matches Nos. 6 and 7 Crimped Picket Fence.

Order by Style Number, and always specify whether fittings for Wood or Iron Posts are desired.

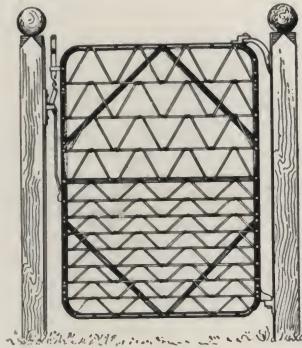


Fig. 504.

STYLE 504, SINGLE WALK GATE.

Enameled Black. Matches Styles A and C Stockade.

Order by Style Number, and always specify whether fittings for Wood or Iron Posts are desired.

PRICE LIST.

(Subject to Change without Notice.)

HEIGHT, Inches.	SINGLE WALK GATES. Crimped Pattern.			DOUBLE DRIVE GATES. Crimped Pattern.
	3 ft. Wide.	3½ ft. Wide.	4 ft. Wide.	9 ft. Wide.
29	\$5.60	\$7.20	\$8.00	\$17.60
35	5.60	7.20	8.00	17.60
41	7.20	8.00	8.80	20.80
47	7.20	8.00	8.80	20.80

Special Widths made to fit certain spaces other than those given in schedule:—

\$2.08 per lineal foot of width for 29" and 35" heights.

\$2.64 per lineal foot of width for 41" and 47" heights.

DISCOUNT**PRICE LIST.**

(Subject to Change without Notice.)

HEIGHT, Inches.	SINGLE WALK GATES. Crimped Pattern.			DOUBLE DRIVE GATES. Crimped Pattern.
	3 ft. Wide.	3½ ft. Wide.	4 ft. Wide.	9 ft. Wide.
29	\$5.60	\$7.20	\$8.00	\$17.60
35	5.00	7.20	8.00	17.60
41	7.20	8.00	8.80	20.80
47	7.20	8.00	8.80	20.80

Special Widths made to fit certain spaces other than those given in schedule:—

\$2.08 per lineal foot of width for 29" and 35" heights.

\$2.64 per lineal foot of width for 41" and 47" heights.

DISCOUNT**PRICE LIST.**

(Subject to Change without Notice.)

HEIGHT, Inches.	SINGLE WALK GATES. Stockade Pattern.			DOUBLE DRIVE GATES. Stockade Pattern.
	3 ft. Wide.	3½ ft. Wide.	4 ft. Wide.	9 ft. Wide.
36	\$3.75	\$4.00	\$4.25	\$9.50
42	3.95	4.15	4.35	9.50
48	4.10	4.30	4.50	9.50
54	4.25	4.45	4.65	9.50
60	4.45	4.65	4.85	9.50

Special Widths made to fit certain spaces other than those given in schedule:—

\$1.70 per lineal foot of width.

DISCOUNT



Plate 2502. A "Hartman" Steel Picket Fence, Style No. 2. (Extra Heavy) 37 inches high. Erected in New York City (Borough of Bronx). The *Scroll Pattern Single Walk Gate* is here shown. Erected 1897. Photographed 1900.



Plate 2503. Partial view of 500 feet of No. 1 "Hartman" Steel Picket Fence, 37 inches high, showing a *special construction*, whereby *every* post in the front is an ornamental one, while in the division fence and the rear portion (not here shown) the intermediate posts are the regular line posts. Gates are *Scroll Pattern*. Erected 1897. Photographed 1900.



Plate 2504. Here is shown a **No. 1 "Hartman" Steel Picket Fence** with **Scroll Pattern Gates**, 37 inches high, along the front, in a special construction with respect to posts (*all* of which are ornamental) and the **No. 3**, down the side or division line. Ordinarily our regular line posts, provided for in the price lists on pages 2 and 3, are used, but there are places where all the posts are thought to look more pleasing in the ornamental style. They cost extra of course. Erected 1892. Photographed 1900.

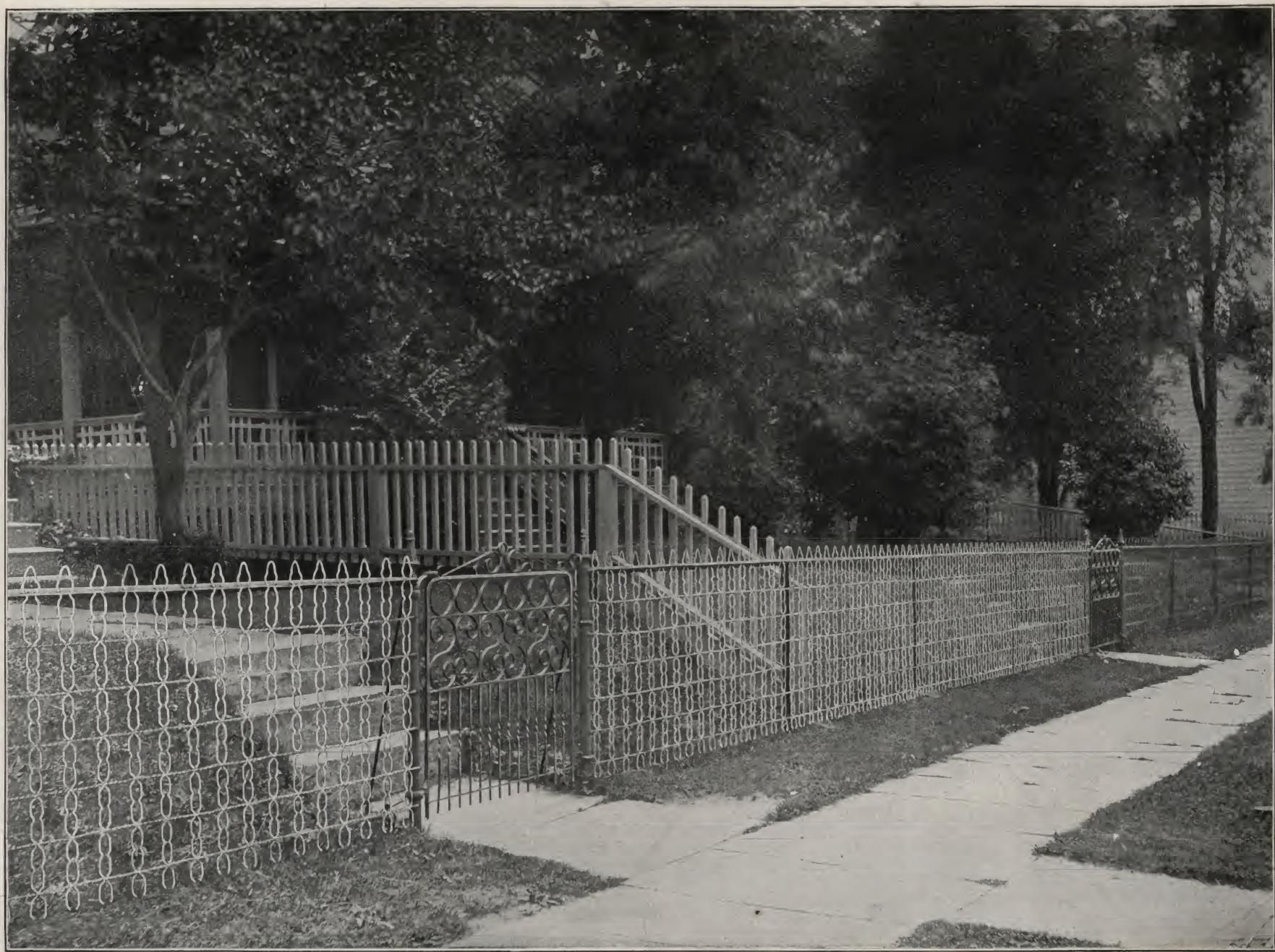


Plate 2505. The "Hartman" Steel Picket Fence, Style No. 1, 43 inches high, with **Scroll Pattern Gates**, is here shown in the **regular** construction,—line posts of the plain style placed about 9 ft. apart. It will be observed how much better these two lawns would look if the "Hartman" Fence were built down the division line instead of the cumbersome wooden picket fence that shows so conspicuously.



Plate 2506. The "Hartman" Steel Picket Fence, 36 inches high, Style No. 3. Erected as a division line fence between two lawns, affording each ample protection, and yet not materially obstructing the view of either. For this purpose, the Crimped Picket Fence (see page 4) is also frequently used. Above fence was erected 186. Photographed 1900.

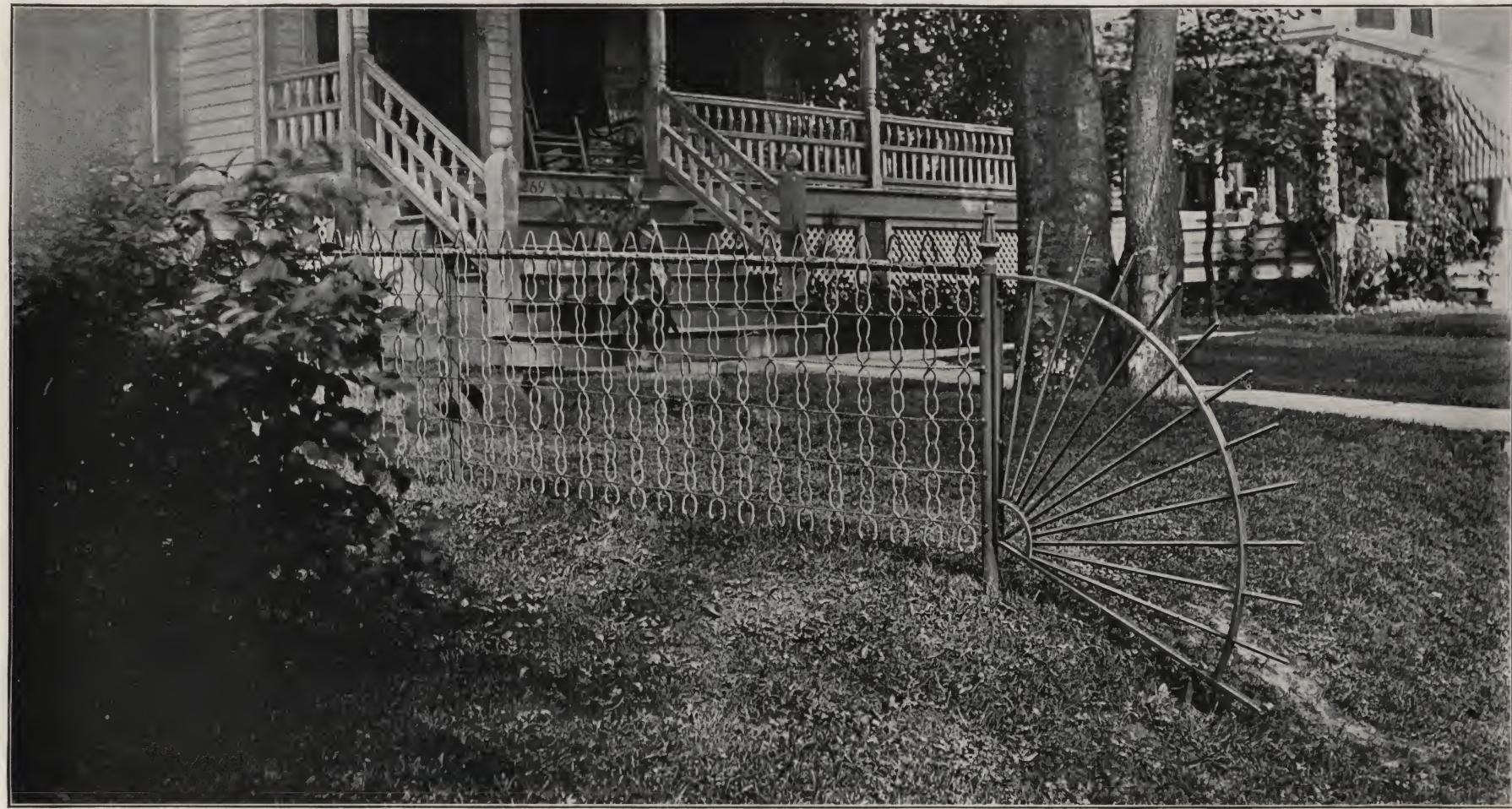


Plate 2507. The "Hartman" Steel Picket Fence, 37 inches high, Style No. 2, (Extra Heavy) as a division line fence, with a quarter-turn wrought-iron guard as an end finish. Prices of these guards are extra and given upon application. Erected 1897. Photographed 1900.

THE HARTMAN MANUFACTURING COMPANY OF ELLWOOD CITY. LAWN FENCES.

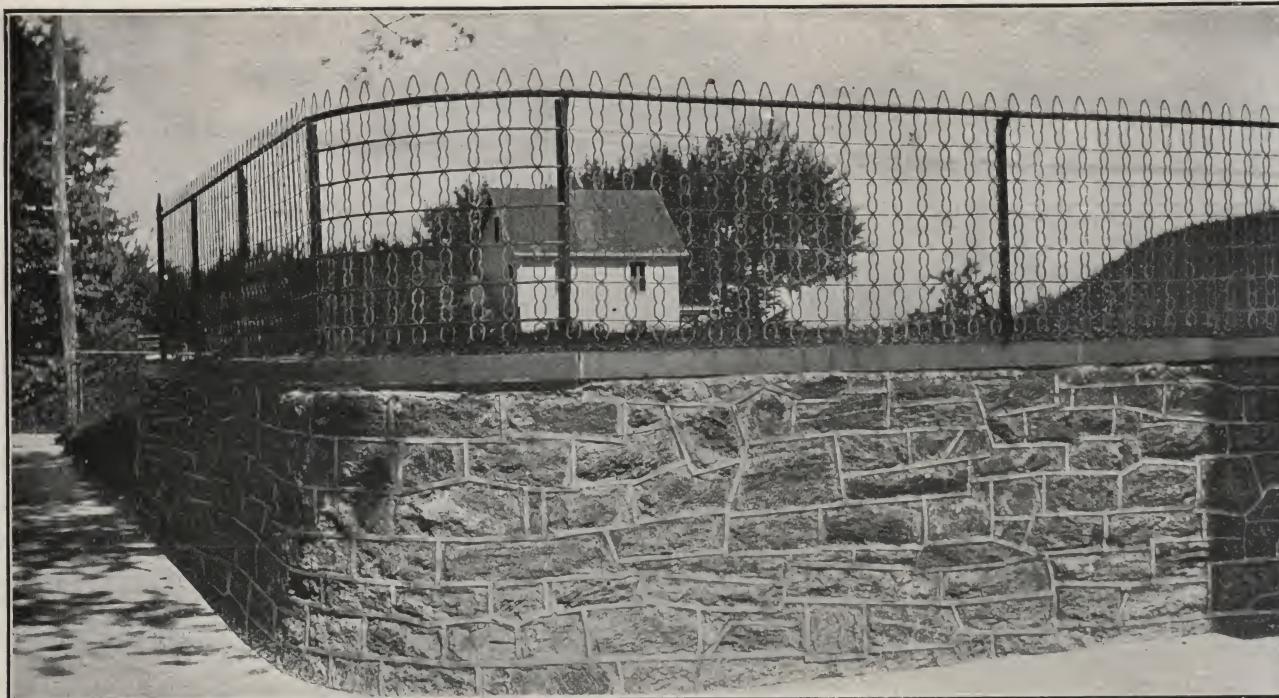


Plate No. 2508.

This reproduction from a photograph taken five years after the fence was erected shows the "**Hartman**" Steel Picket Fence, 43 inches high, Style No. 2, erected on a stone wall and a very neat curved corner.

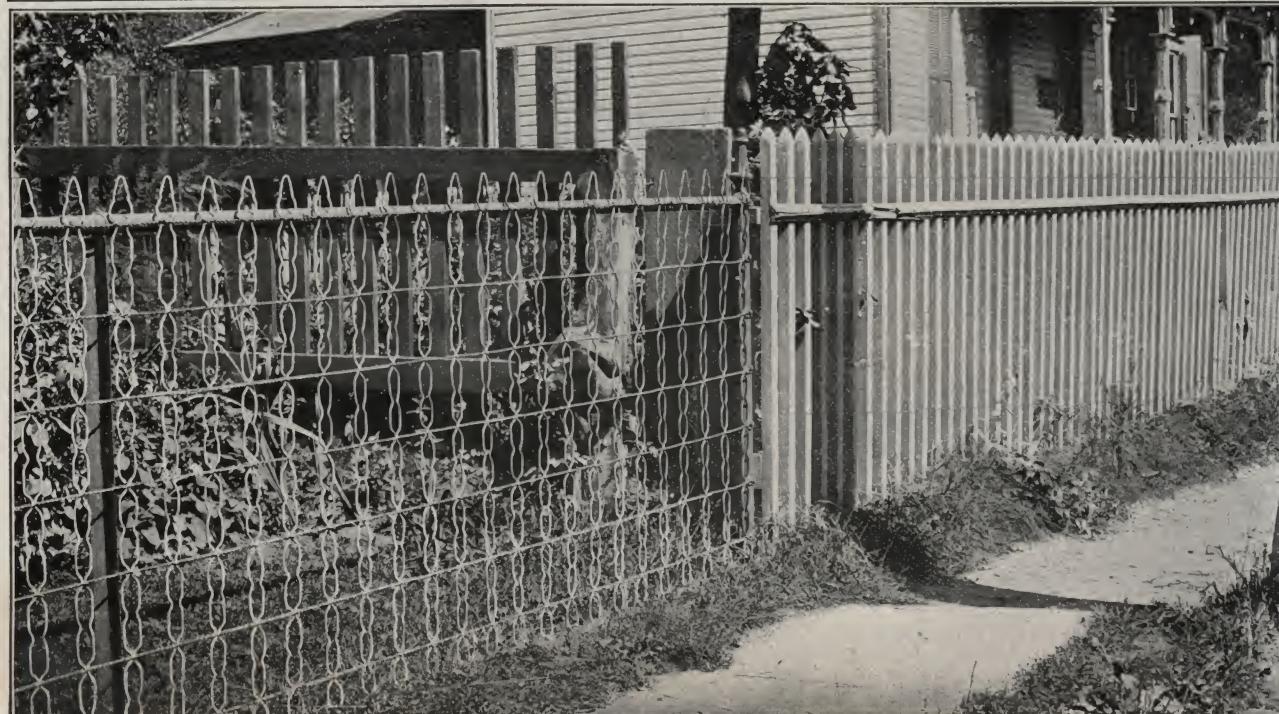


Plate No. 2509.

Here is shown with the accuracy of the photographer's art, the striking contrast between the appearance of a "**Hartman**" Steel Picket Fence and two grades of wooden picket fences. It will be observed that, at an angle of 45 degrees, the view of the lawn is *wholly* obstructed by the "wooden paling" fence, while at the same angle *the lawn behind the "Hartman" Fence is plainly visible*. **The Steel Picket Fence** gives the user the *additional* important advantage of **greater** strength and durability.

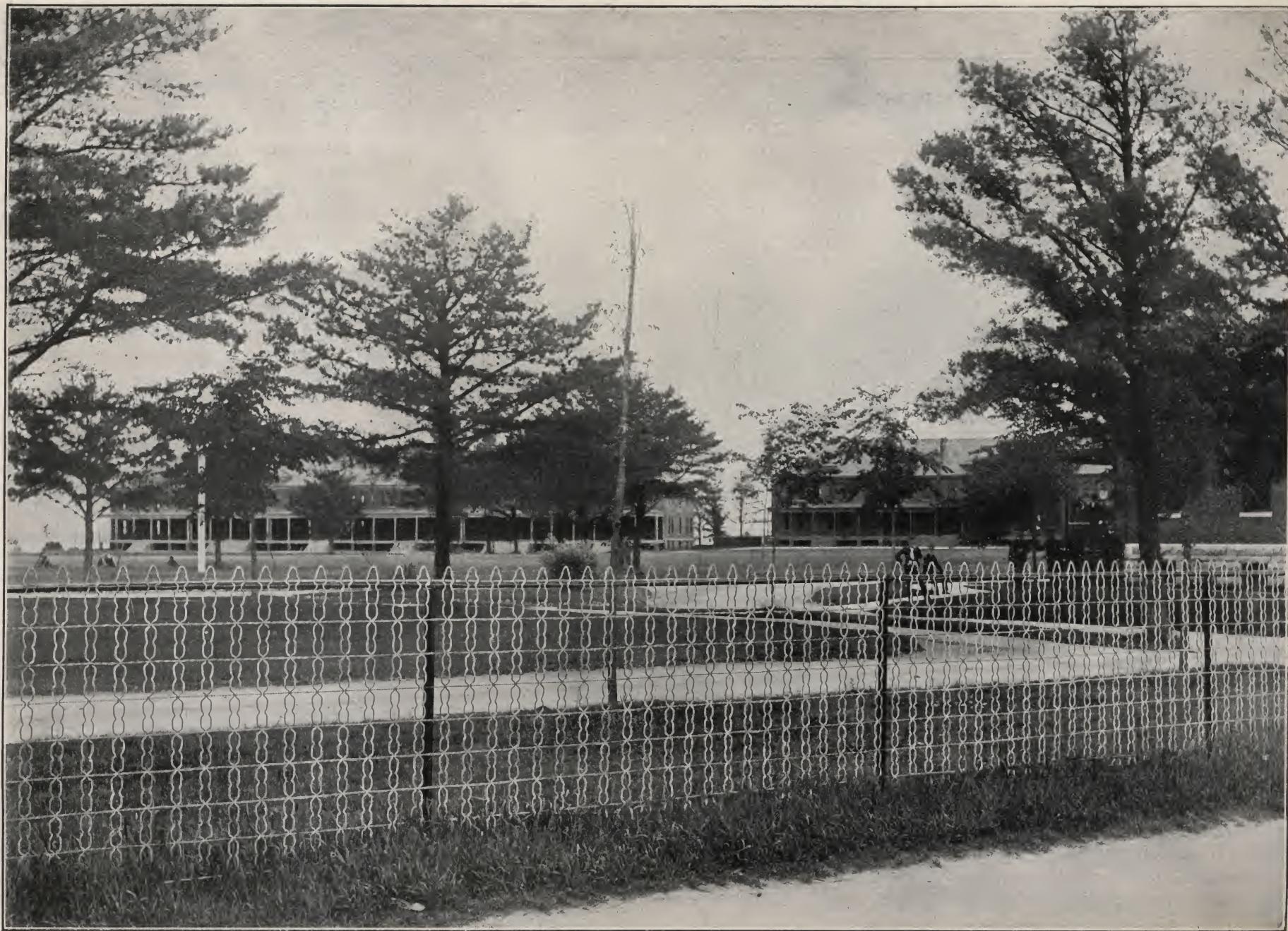


Plate 1000. This is a partial view of a "Hartman" Steel Picket Fence, 55 inches high, Style No. 2, bought by the U. S. GOVERNMENT through the WAR DEPARTMENT, and erected—some 4,000 feet in all—at the Plattsburgh Barracks, Plattsburgh, N. Y. It is well for intending purchasers to note the fact that the "Hartman" Steel Picket Fence, is so constructed, and of such superior grade of material, as to meet the rigid specifications and exacting requirements of the WAR DEPARTMENT of the U. S. GOVERNMENT. The Soldiers in the background were of the 21st U. S. Infantry, that suffered so heavily at Santiago, in 1898.

THE HARTMAN MANUFACTURING COMPANY OF ELLWOOD CITY. PARK FENCES.

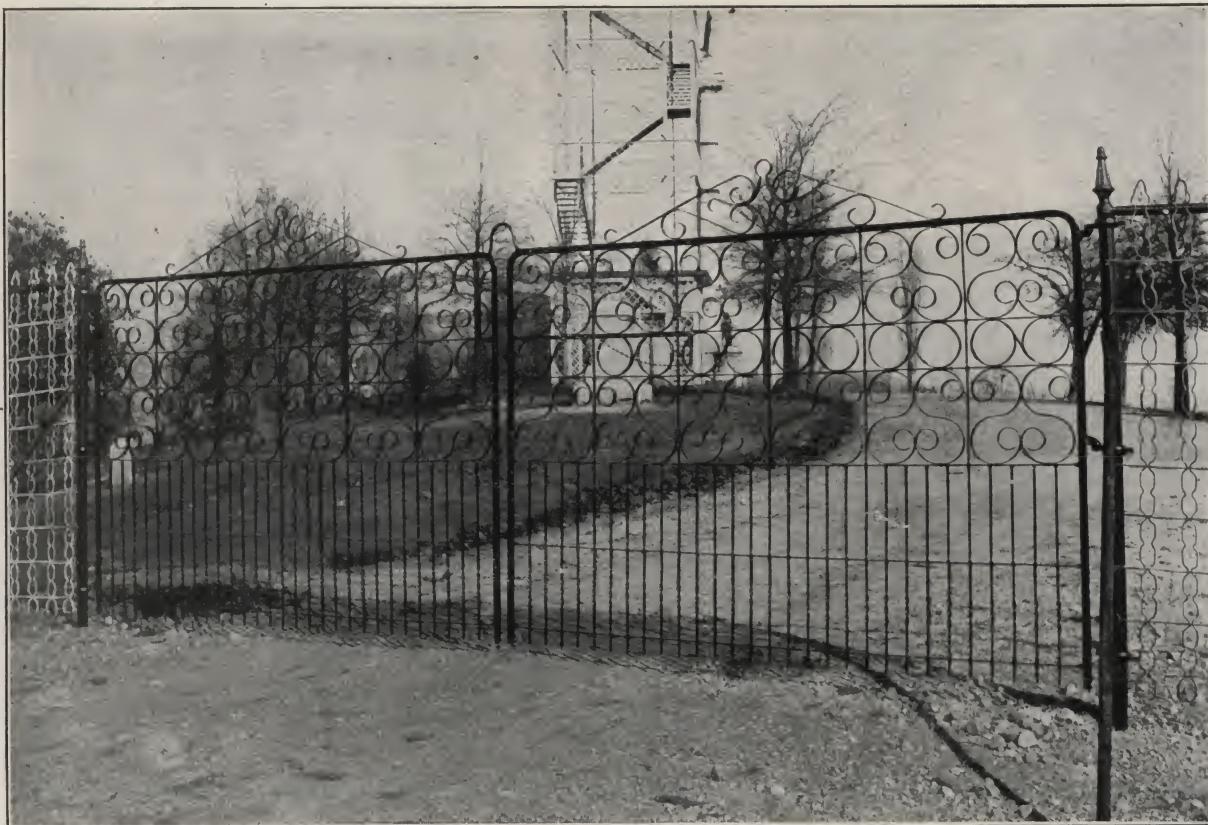


Plate 2510. Chickamauga and Chattanooga National Military Park.

BRAGG'S HEADQUARTERS, MISSIONARY RIDGE.

View on Crest Road, showing the "Hartman" Steel Picket Fence, and special 14 foot Scroll Pattern Double Drive Gate. Height of fence, 55 inches. Owing to extra width of this gate, braces were used for the posts.

Upwards of 4,000 feet of "Hartman" Steel Picket Fence was bought through the WAR DEPARTMENT by the U. S. GOVERNMENT and erected around certain Reservations in the magnificent Military Park, embracing the famous Battle Fields of Chickamauga, Missionary Ridge and Lookout Mountain.

The Tower in the foreground marks the location of the Headquarters of the Confederate Commander, Gen. Braxton Bragg, during the Battle of Missionary Ridge in 1863. The view shows the very crest of the Ridge, up the face of which, at the point shown in the left of the picture, charged that portion of the Union troops commanded by General Sheridan, capturing a battery of artillery that was stationed at a point directly behind the location of the Scroll Gate.

The Chickamauga and Chattanooga National Park is broad in its plan and scope and extends over portions of three counties of two States, contains 5,900 acres in eight separate reservations.

The movements of both the Union and Confederate Armies are faithfully followed and marked historically correct without bias or prejudice toward either side. 1,000 tablets of iron and bronze containing about 400 words of text each, are used to give the history of the battles. Battle lines are marked by State and United States Monuments and Markers 665 in number, where their best fighting was done.

All Battery positions are marked by 249 cannons mounted in battery, on iron gun carriages. The States have spent in round numbers \$525,000.00 and the United States \$1,250,000.00 to establish the Park. Sixty-three miles of magnificent roads and avenues and five steel observation towers have been erected to reach and view the battle field of the most sanguinary conflict of ancient or modern times, where 34,000 was the lost in killed, wounded and missing on both sides, about equally divided.

WAR DEPARTMENT
CHICKAMAUGA AND CHATTANOOGA
NATIONAL PARK COMMISSION
CHATTANOOGA

NOVEMBER 13, 1900.

THE HARTMAN MFG. CO., Ellwood City, Pa.

Dear Sirs: We have erected 3,900 lineal feet of your Steel Picket Fence with Metallic Posts and Top Rail, at three of the reservations included in this Park. It was erected by our regular Park force of laborers, on ground that is of a hard and gravelly nature without losing a single post, although it was necessary to pull up and straighten five or six of the 470 used, that were bent by striking bowlders.

On the Crest Road it conforms to all the curves, some of which reverse and are of short radius. It is neat and strong, stands the service very well, and is regarded as a mean in cost between the best types of woven wire and heavy wrought iron construction. With the fittings provided, I see no reason why any intelligent person should not erect this fence properly, as in our case, no skilled laborers or mechanics were employed.

Yours very truly,
E. E. BETTS,
Engineer of the Park.



Plate 2511. Chickamauga and Chattanooga National Military Park.

SHERMAN RESERVATION, MISSIONARY RIDGE.

View on Crest Road showing the "**Hartman**" Steel Picket Fence, 55 inches high, with Scroll Pattern Single Walk Gate.

This is the portion of the Confederate position at the Battle of Missionary Ridge upon which the Union left wing, commanded by General Sherman, delivered its assaults. For miles over these once bloody fields appear markers and monuments locating the positions of the various commands during the battles, or the spot where some hero fell or where some whole regiment or brigade of heroes was swept to death. Some monuments erected by States or regimental organizations are beautiful works of art.

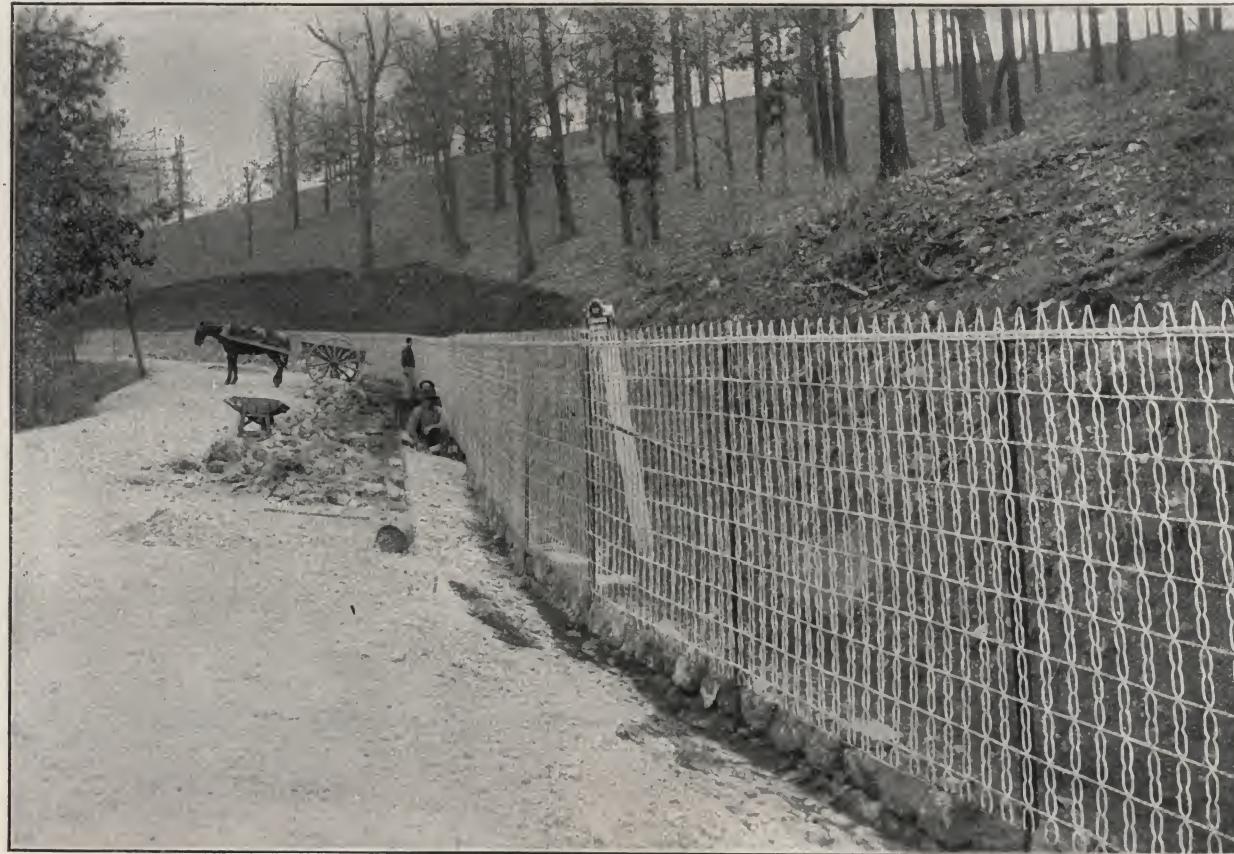


Plate 2512. Chickamauga and Chattanooga National Military Park.

SHERMAN RESERVATION, MISSIONARY RIDGE.

This view shows a portion of one stretch of 2,400 feet of "**Hartman**" **Steel Picket Fence**, 55 inches high, built at this point in reverse curves at the same time on a grade.



Plate 2513. A partial view of 2,000 feet of "*Hartman*" Steel Picket Fence, 61 inches high, Style No. 2, with Scroll Pattern Entrance Gates, erected around one of the finest Cemeteries in Ohio. The "*Hartman*" Fences are more extensively used for Cemeteries than any two other styles of fences.



Plate 2514. A view of what would ordinarily be a very difficult construction of a fence on a terrace surmounted by coping. In the erection of the above "Hartman" Steel Picket Fence no difficulty in construction of the fence was encountered. Fence above was No. 2, Extra Heavy, 43" high. Erected in 1897. Photographed 1900.

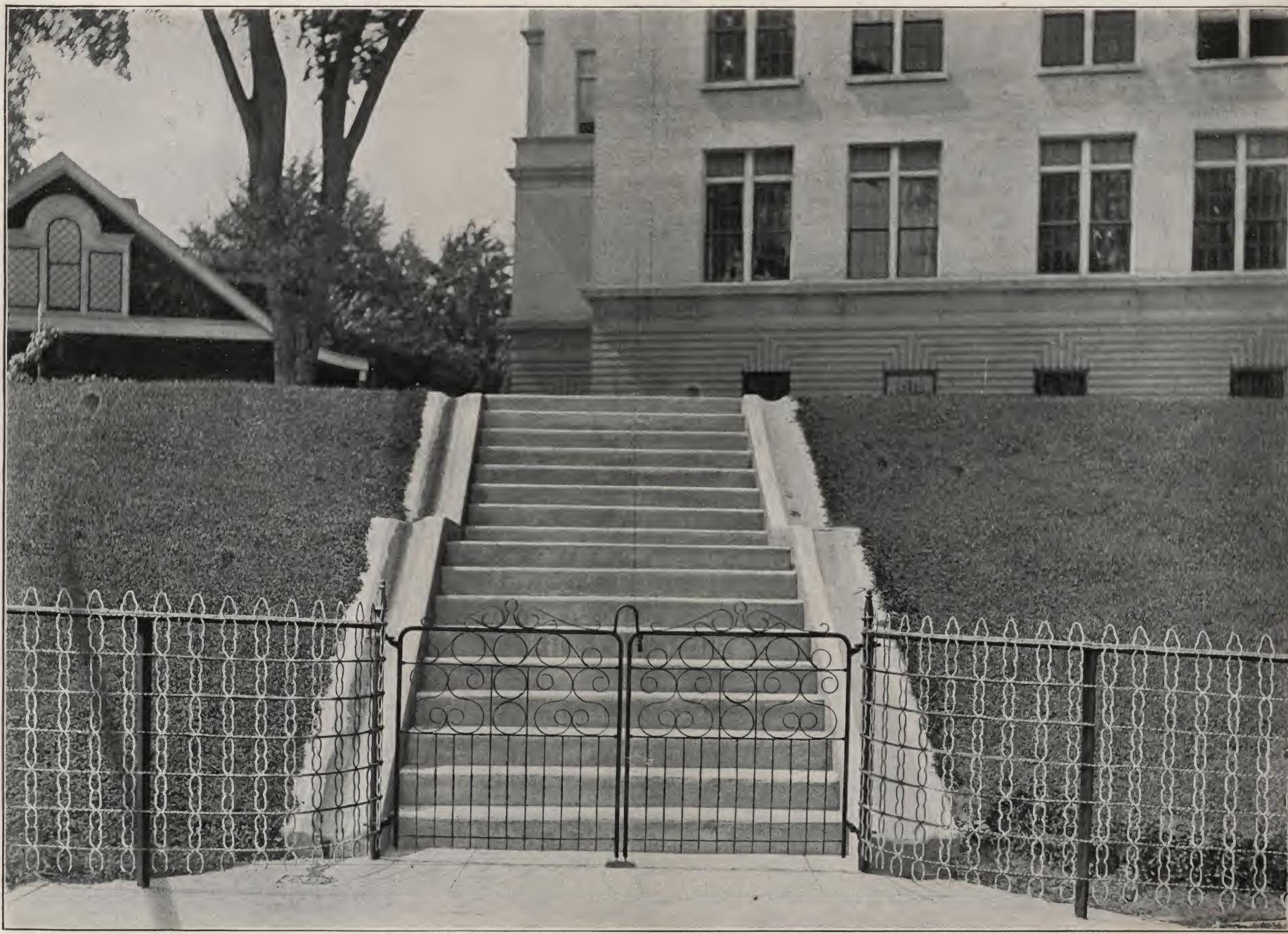


Plate 2515. A School House in New York City enclosed by the "Hartman" Steel Picket Fence, Style No. 2, Extra Heavy, 43" high. The No. 2, Extra Heavy, is generally the style selected for School Houses. Erected in 1897. Photographed 1900.

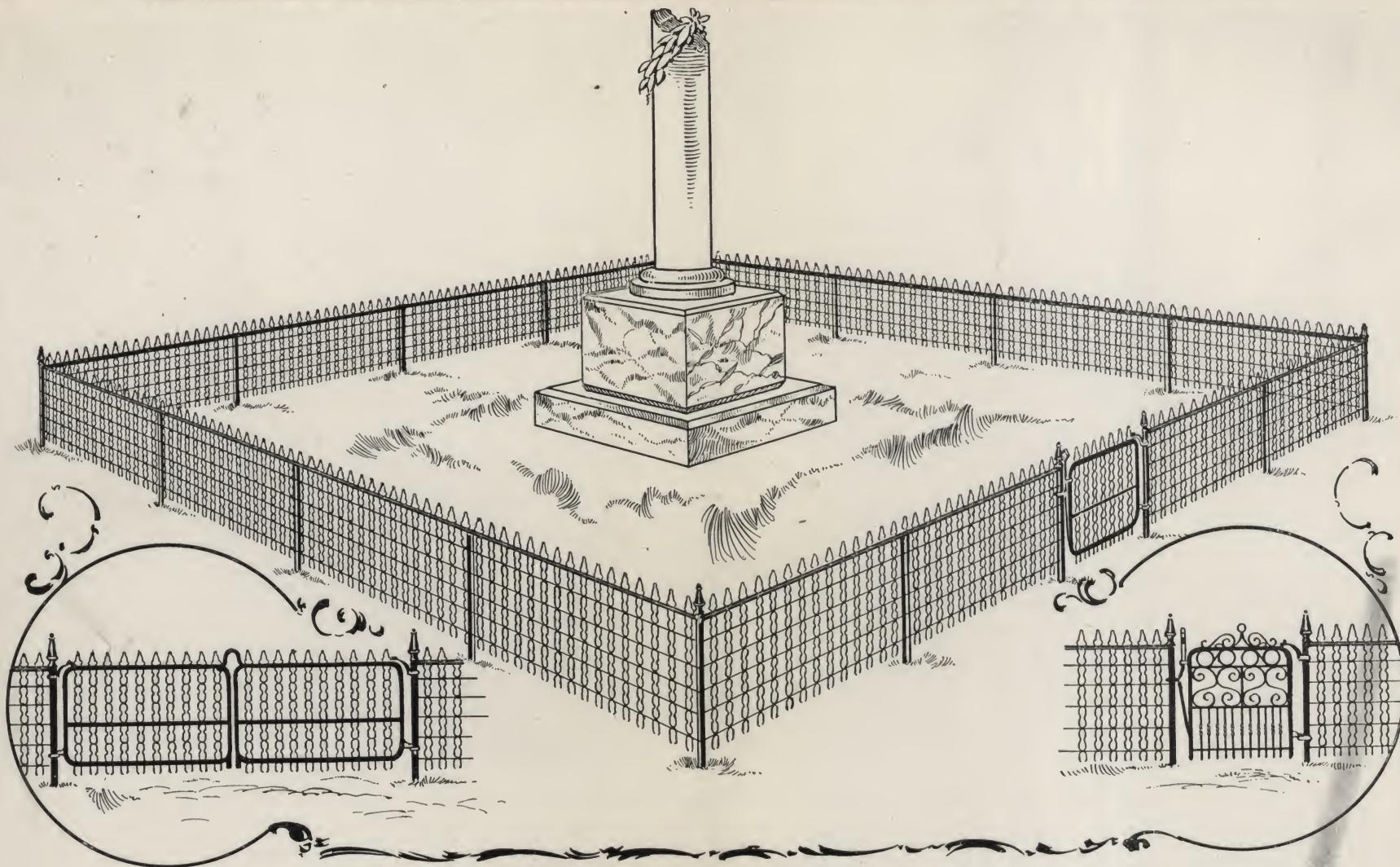


Fig. 2610.

These prices are for the complete material, including the Fence, Top Rail, Corner Posts, Gate Posts, Line Posts and 1 Plain Pattern Single Walk Gate, 3 feet wide, to go in center of side or end, according to wishes of purchaser, to be made known to us when order is sent. If no Gate is required, or if Gate may swing or latch on a corner post, the price of each Lot Fence will be less.

Prices of Fence for other sizes of lots sent upon application.

PRICE LIST (Subject to Change Without Notice.)	SIZE OF LOT.	25" HIGH.		31" HIGH.		37" HIGH.		43" HIGH.	
		Style No. 1.	Style No. 3.						
Price of Fence Complete	4' x 8'	\$38.08	\$35.14	\$38.92	\$35.98	\$39.76	\$36.82	\$43.02	\$39.66
Price of Fence Complete	8' x 12'	48.56	43.38	50.04	44.86	51.52	46.34	55.74	49.82
Price of Fence Complete	12' x 16'	57.64	50.22	59.76	52.34	61.88	54.46	67.06	58.58
Price of Fence Complete	16' x 16'	61.48	52.94	63.92	55.38	66.36	57.82	72.02	62.26
Price of Fence Complete	25' x 25'	85.76	72.18	89.64	76.06	93.52	79.94	101.34	85.82

THE HARTMAN MANUFACTURING COMPANY OF ELLWOOD CITY. FARM FENCES.

Fig. 500. The "Hartman" Stockade Woven Wire Fence.

Intelligent farm fence buyers know—some of them from experience gained when in fence matters they were not so intelligent—that fences imperfectly woven, whether made in factories or with hand machines, and those made of wires too light for the purpose used, have entailed an enormous expense upon the farmers through the necessity for repairs or outright rebuilding.

The ingenuity of the most successful inventors has contrived no better fence than our "Stockade," and in some important respects it is ABSOLUTELY UNRIVALED.

THIS Fence, made in four styles and various heights, for hogs, sheep, cattle and horses, is composed of horizontal strands of gauge 13 galvanized steel wire (except top and bottom wires, which are of gauge 10) braced by intersecting strands of gauge 13 wire.

It is made with horizontal wires 3 inches apart, below 24 inches; above that distance, 6 inches apart.

The nature of the construction indicates its remarkable strength. It contains much more material than fences more cheaply constructed, consequently is proof against chickens as well as the heaviest stock.

Ample provision is made for expansion and contraction. It will not sag, properly erected and stretched, as do all "coil spring" and "corrugated" fences.

For use on the *Farm, Ranch Pasture, Plantation, Corral* and for *general field use* it is usually erected on posts of wood, placed from 10 to 16 ft. apart, WITH BRACED terminal corner and gate post. Some fence users place posts greater distances apart with mere wood braces fastened to fence and resting on the ground at convenient intervals. We are able, however, to supply our STEEL POSTS and braces at a FIRST COST but little advanced over wood, which is more than met by their durability.

"Special Hog" Style A.

Construction.

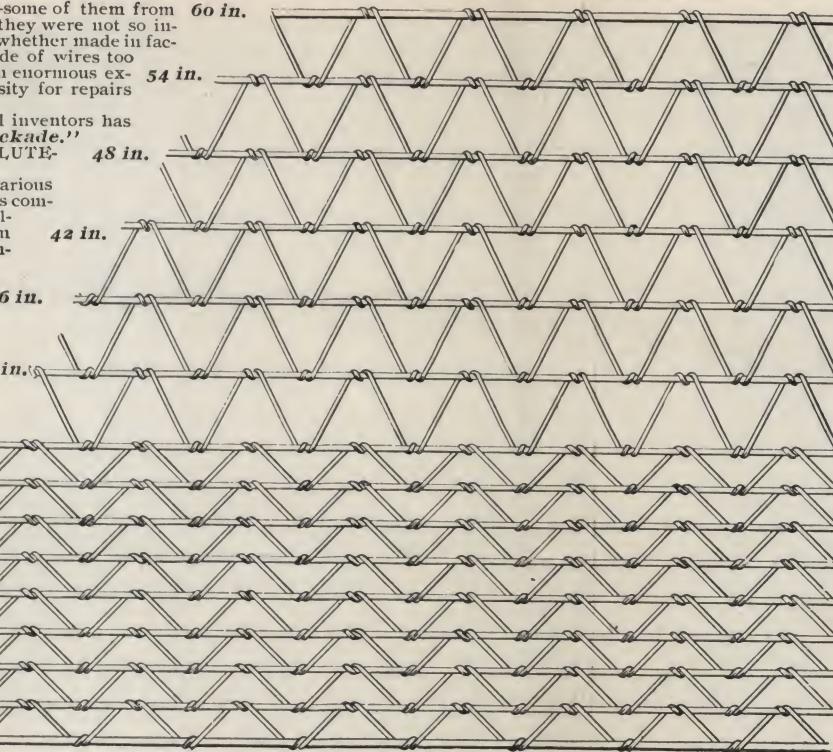
Top and Bottom Cable No. 10 Galvanized Steel Wire. Intermediate Cables of No. 13 Galvanized Steel Wire. Trusses of No. 13 Galvanized Steel Wire. The first six spaces from the bottom are 3 inches wide. The top space is 6 inches wide.

PRICE LIST

(Subject to Change Without Notice.)

Height.	Price per Rod.
24 inches (only).....	\$.73

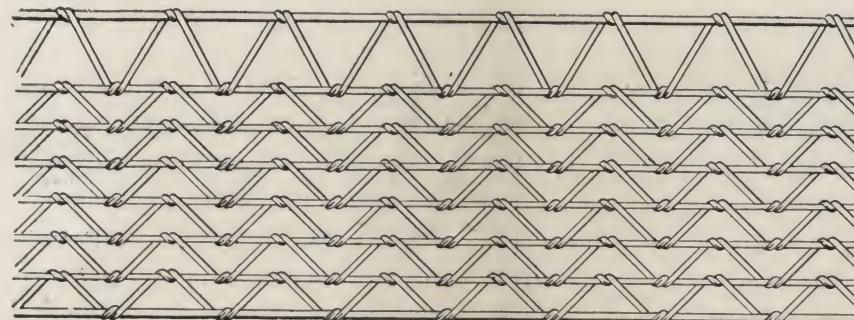
DISCOUNT



The above cut shows the different heights of "STOCKADE" FENCE. It is put up in Standard Rolls 20 Rods each, or in special lengths when ordered.

Fig. 501. The "Hartman" Special Hog Fence.

(In 24-Inch Height Only.)



For Hog Fencing used in connection with two or more strands of twisted or barbed wire placed above it.

CONSTRUCTION.

Style A—Top and bottom Cable No. 10 Galvanized Steel Wire. Intermediate Cables of No. 13 Galvanized Steel Wire. Trusses of No. 13 Galvanized Wire. The first eight spaces from the bottom are 3 inches wide. The spaces above the first 8 spaces are 6 inches wide.

NOTE—In the 60 inch height the first 10 spaces are 3 inches wide.

Style C—Top and Bottom Cables of No. 10 Galvanized Steel Wire. Intermediate Cables of No. 13 Galvanized Steel Wire. Trusses of No. 14 Galvanized Steel Wire. The spacing is exactly like that of Style A. This fence has the same lateral strength as Style A and is used for the same purposes.

NOTE—The only difference between Styles A and C is in the gauge of Truss Wires used.

PRICE LIST

(Subject to Change without Notice.)

Height.	Style A. Price per Rod.	Style C. Price per Rod.
60 inches	\$1.46	\$1.31
54 inches	1.32	1.16
48 inches	1.22	1.07
42 inches	1.12	.98
36 inches	1.00	.88
30 inches	.90	.79
24 inches	.78	.70

DISCOUNT

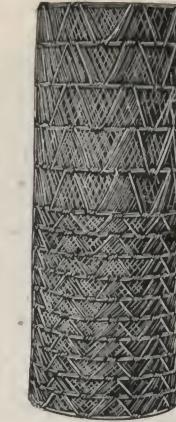


Fig. 500 $\frac{1}{2}$.



Fig. 501 $\frac{1}{2}$.

"Hartman" Stockade Woven Wire Fence in Roll for Shipping.
Standard Rolls 20 Rods each.

"Special Hog" Style C.

Construction.

Top and Bottom Cables of No. 10 Galvanized Steel Wire. Intermediate Cables of No. 13 Galvanized Steel Wire. Trusses of No. 14 Galvanized Steel Wire. The spacing is exactly like that of Special Hog Style A, and fence is used in the same manner and for the same purpose.

PRICE LIST

(Subject to Change Without Notice.)

Height.	Price per Rod.
24 inches (only).....	\$.64

DISCOUNT

Plate 2516. The "Hartman" Steel Tree Guard.



ORNAMENTAL, STRONG, DURABLE AND CHEAP.

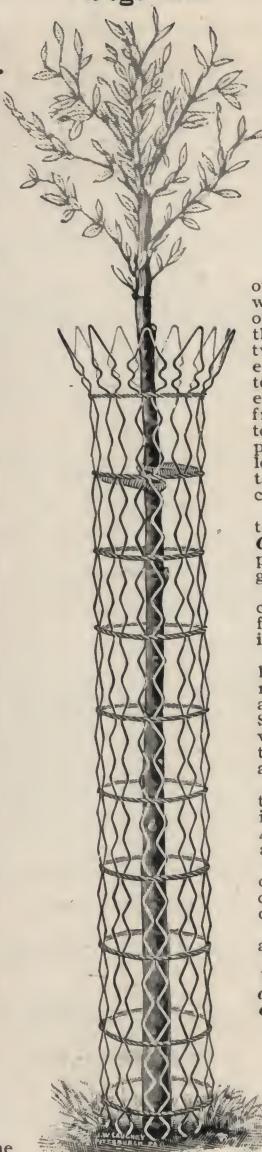
Made of heavy Steel Rods, Galvanized.

The GUARDS are light and graceful in appearance, making an Ornament to the grounds; will not conceal the foliage nor shade the tree from the sun; will not harbor insects, and will allow cultivation of the ground. They take but a moment to erect and are easily moved from place to place. All wooden tree boxes and similar rigid styles, are liable to injure seriously or retard the growth of trees, aside from harboring insects that are known to be the worst enemies of the maple and other shade trees. Besides, the wooden boxes are clumsy and unsightly and require frequent repairs and painting.

The Spiral Wire Coils for attaching this guard to the tree are elastic and freely expand with the growth of the trunk, and also prevent any friction or chafing of the tree against the guard during storms or high winds.

It is as durable as a heavy, expensive wrought-iron guard, as neat in appearance, and costs much less. *Over one million of the "Hartman" Tree Guards are now in use.*

Fig. 31.



PRICE LIST.

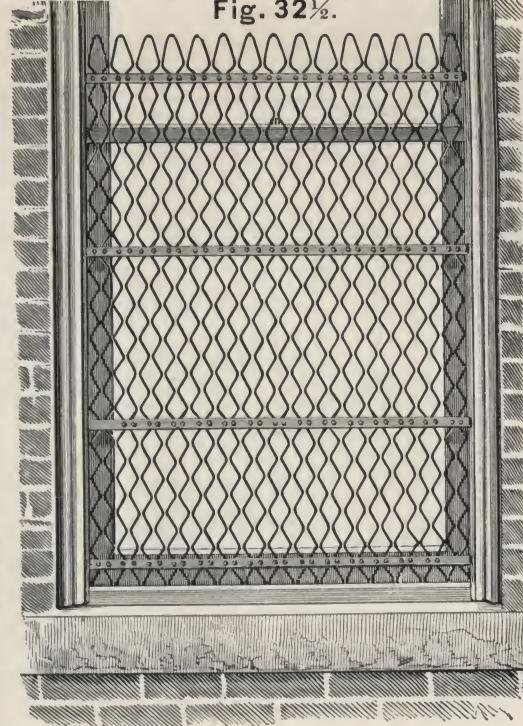
Give height and diameter when ordering.

5 ft 6 in. high. per doz.	6 ft. high. per doz.
No. 1, 9 in. in diameter, \$24 00	\$26.00

No. 1, 5 in. in diameter, 22.00 24.00
No. 2, 8 in. in diameter, 22.00 24.00
For Special Guards add \$2.00 per dozen for
each additional inch in diameter over nearest
smaller regular size.

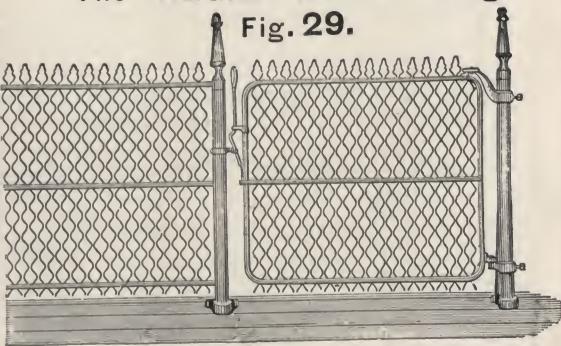
DISCOUNT-

The "Hartman" Steel Window Guard. Fig. 32½.



The "Hartman" Office Railing.

Fig. 29.



PRICE LIST.

(Same sizes of Rods as the Steel Picket Fence shown on page 5, Fig. 80, although crimped in a different shape.)

Made of No. 8 rod, per square foot	\$.52
Made of No. 6 rod, per square foot64
Made of No. 4 rod, per square foot72

Irregular shapes in Railings, 50 per cent. higher.

Ornamental Posts for Railings, each 3.50

Diamond Mesh Gates same price as Fig. 63 Gates, on page 6.
Cutting each wicker or window in Desk Railings, \$1.00, net.

Cutting each wicker or window in Desk Railings, \$1.00, net.

DISCOUNT _____

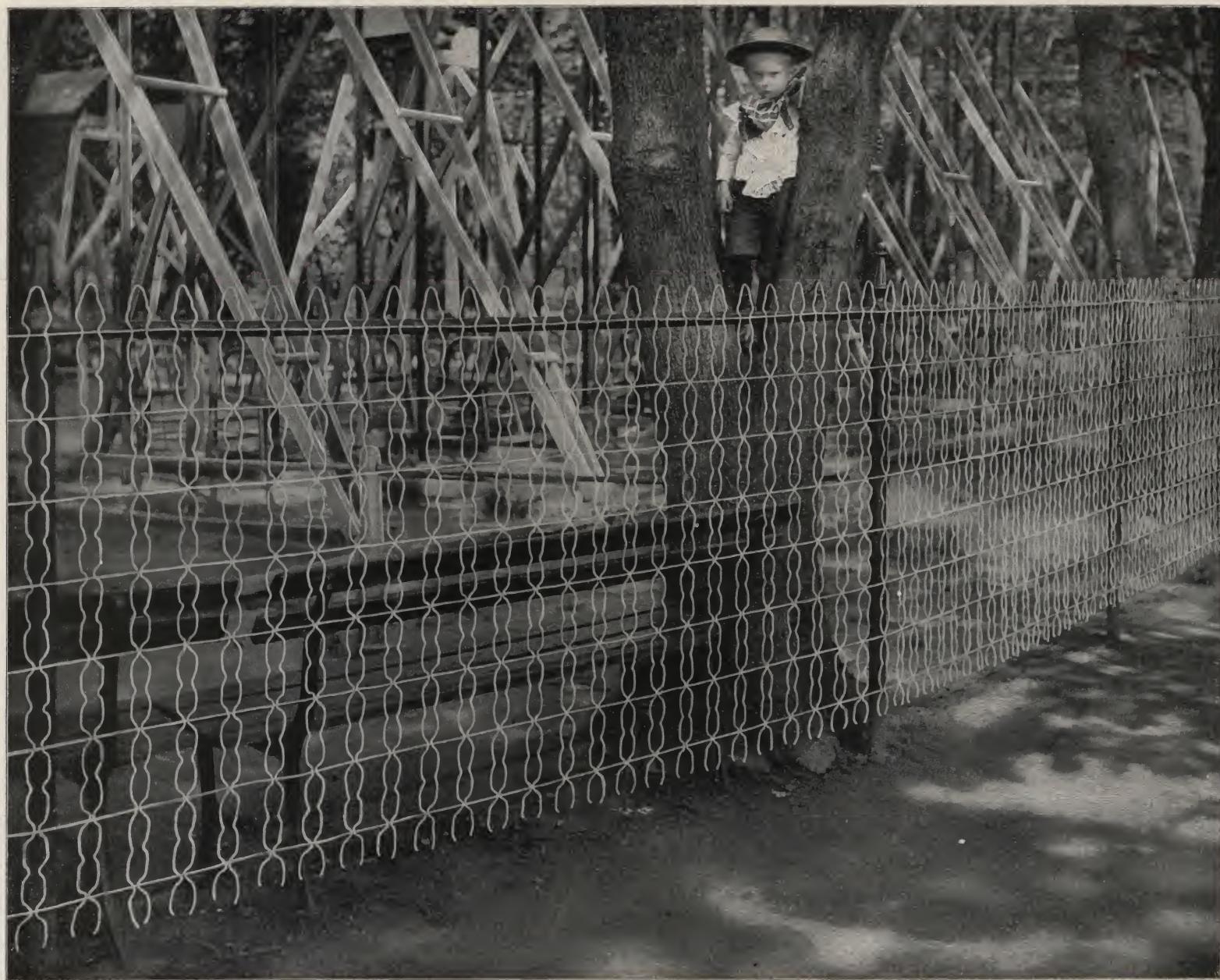


Plate 1004.

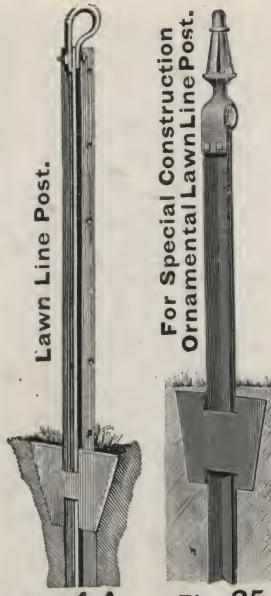
View of The "Hartman" Steel Picket Fence erected around the Swings and Children's Play Grounds in *Lincoln Park*, Chicago.

THE HARTMAN MANUFACTURING COMPANY OF ELLWOOD CITY. LAWN FENCES.

Gate, End or Corner Post.



Lawn Line Post.



For Special Construction Ornamental Lawn Line Post.



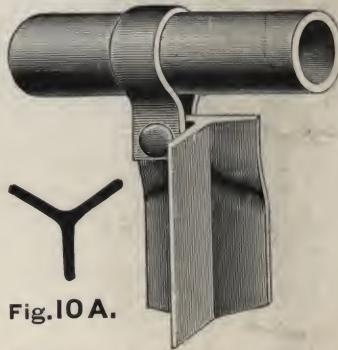
Gate and Post Fittings for Iron Posts.



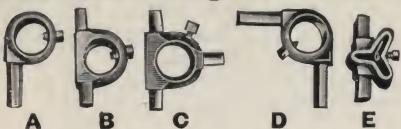
Gate and Post Fittings for Wood Posts.



Our Special Y Section Steel Line Post.



Bottom Rail Fittings for Iron Posts.



NOTE.—For certain purposes, such as for schools and public grounds, bottom rail is sometimes used.

- A.—Connection for gate or end post.
- B.—Connection for intermediate post.
- C.—Connection for division post.
- D.—Connection for corner post.
- E.—Connection for Y steel line post.

Section of Top Rail attached to Line post.
Greatest rigidity with greatest economy.

PRICE LIST OF THE FABRIC ONLY.

(Subject to Change Without Notice.)

"HARTMAN" STEEL PICKET FENCE—Galvanized.

NOTE.—It frequently being necessary to order separate parts of the Hartman Steel Picket Fence, the prices of such separate parts (except gates which are listed on pages 6 and 7) are here given:

STYLE.	Height, Spear Top.	Size of Pickets.	Distance Between Pickets.	Number of Cables.	Size of Wire (2 Strands) in Cables.	Per Lineal Foot.	"Close" Fence 2 in. Between Pickets, per Lineal Ft.
No. 1 Standard Lawn Fence.	25 in.	No. 6 Rod	3 in.	4	No. 12 Wire	32 cts.	42 cts.
	31 "	" "	"	5	" "	36 "	46 "
	37 "	" "	"	6	" "	40 "	50 "
	43 "	" "	"	7	" "	46 "	58 "
	49 "	" "	"	8	" "	54 "	68 "
	55 "	" "	"	9	" "	64 "	78 "
No. 2 Extra Heavy Lawn Fence.	61 "	" "	"	10	" "	74 "	90 "
	25 in.	No. 4 Rod	3 in.	4	No. 12 Wire	38 cts.	50 cts.
	31 "	" "	"	5	" "	46 "	58 "
	37 "	" "	"	6	" "	54 "	70 "
	43 "	" "	"	7	" "	60 "	78 "
	49 "	" "	"	8	" "	68 "	86 "
No. 3 Lawn Fence. (Round top only.)	55 "	" "	"	9	" "	78 "	98 "
	61 "	" "	"	10	" "	90 "	\$1.10
	24 in.	No. 8 Rod	3 in.	4	No. 12 Wire	18 cts.	28 cts.
	30 "	" "	"	5	" "	22 "	32 "
	36 "	" "	"	6	" "	26 "	36 "
	42 "	" "	"	7	" "	30 "	40 "
	48 "	" "	"	8	" "	34 "	44 "
	54 "	" "	"	9	" "	42 "	52 "
	60 "	" "	"	10	" "	48 "	62 "

POSTS, TOP RAIL, ETC.—(Japanned Black.)

DISCOUNT

Steel Gate, End and Corner Posts, Tubular Steel, with Ornament, [Fig. 3 A.] Bolts and Anchors, [Figs. 5 and 9].	\$3.50
Steel Lawn Line Posts, "Y" Steel, [Fig. 25.] with Anchor and Ornament (for special construction), each.	2.20
Steel Lawn Line Posts, "Y" Steel, [Fig. 4 A.] with Anchor and Loop Top, [Figs. 6 and 13 1/2], each.	1.40
Steel Top Rail, drilled, per lineal foot (bottom rail same price as top rail).	.16
Bottom Rail Fittings for posts, (for special construction) each.	.50
Name Plates for Gates, Enamelled on Steel, Blue Letters on White Ground, 2 1/2 in. x 10 in., each.	4.00

DIRECTIONS FOR ERECTING, PAGE 5.

DISCOUNT

NOTE.—The following Steel Picket Fence attachments are regularly included in the price of the parts to which they belong, and the following extra charges are only made when duplicate parts are ordered to replace loss or breakage:

1 Ornament for left hd. gate or end post.	\$1.00	10 Middle latch pieces double drive gate.	.30
2 Ornament for right hd. gate or end post.	1.00	10 1/2 Upper hinge lug.	.30
3 Ornament for corner post.	1.00	11 Lower hinge for walk gate.	.30
4 Ornament for center and T post.	1.00	11 1/2 Lower hinge lug.	.30
X Ornament for center post.	1.00	12 Adj. top hinge for walk gate.	1.00
Y Ornament for center post.	1.00	12 1/2 Staple for attaching top cable to rail, per lb.	.08
Z Ornament for post standing alone.	1.00	13 Latch for single walk gate.	.30
5 Anchor for gate, end or center post.	.50	13 1/2 Adj. loop to hold rail to line post.	.30
6 Anchor for line or field-post.	.30	H Lower rest for walk gate, iron post.	.20
7 1/2 Adj. shoulder to fit into top rail at any angle.	.30	K Lower rest for walk gate, wood post.	.20
9 Hook bolt to hold fence to gate and end post.	.20	14 1/2 Latch spring for single gate.	.80

WOOD POST FITTINGS.

14 Ornament for gate or end wood post.	\$1.00	17 Lower hinge for walk gate.	.30
15 Hinge for single drive gate, top and bottom.	.30	Also top and bottom hinge for double drive gate.	
16 Adj. top hinge for single walk gate.	.80	18 Latch for single walk gate.	.30
18 1/2 Latch for single drive gate.	.30		

DISCOUNT

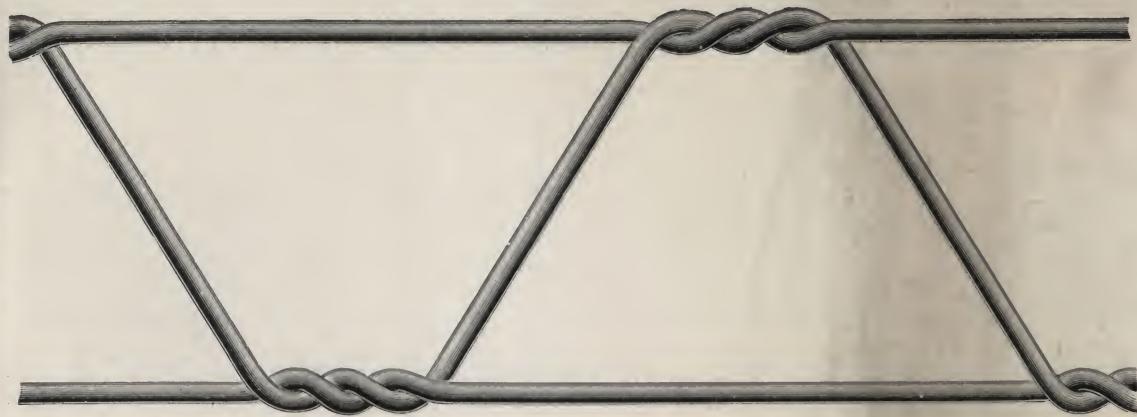


Fig. 35. HARTMAN PANEL FARM FENCE. Price Per Lb. 10c. DISCOUNT



Fig. 67.

FARM POST.

Punched for any number of strands. Length 6 feet.

PRICE LIST:

Post, with anchor..... \$1.20
Post, without anchor..... 1.00

DISCOUNT

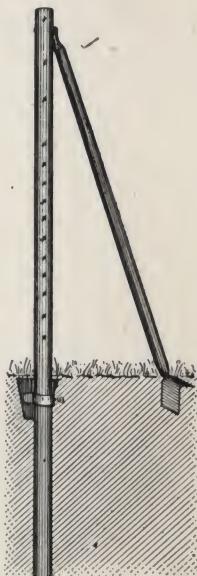


Fig. 66.

POST WITH BRACE.

PRICE LIST:

Post, Ornament and Brace.	\$5.50
Post and Brace without Ornament.....	4.50
Brace.....	2.00

DISCOUNT



Fig. 6A.

"HARTMAN" IMPROVED HITCHING POST.

It cannot be broken nor pulled out. Made of tubular steel, thoroughly painted.

Anchored at the bottom and at the ground level.

These posts furnished with Weldless Steel Chain and Spring Snap Complete.

Price, Hitching Post, complete, \$3.00 each.

DISCOUNT

SUGGESTIONS AS TO ORDER-
ING STEEL PICKET FENCE.

(1) Order or specify INvariably by FIGURE NUMBER or PLATE NUMBER.

(2) When inquiring for the price of a Lawn Fence, send diagram with the inquiry.

(3) The illustrations on pages 2 and 3 show our standard construction—but we can furnish other constructions, which include all Ornamental Posts, etc., and prices will be made for such upon application.

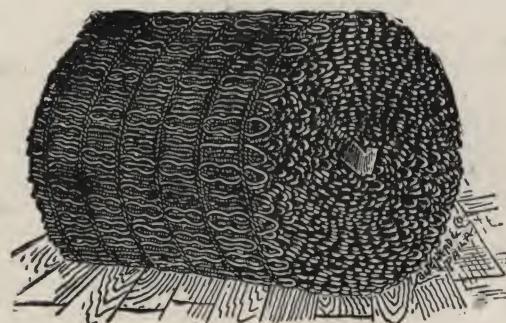


Fig. 95.

A "full roll" of 300 feet of "HARTMAN" STEEL PICKET FENCE ready for shipment.

For the convenience of Dealers and Agents who handle our Fence in bulk, we put up the Fence in rolls of 300 feet. All other parts are carefully wired together, boxed, or crated, when shipped.

No. 1 and No. 2 Fence made in Round Top to order only

The leading styles, such as are usually carried in stock, are mentioned in HEAVY TYPE in the price list.

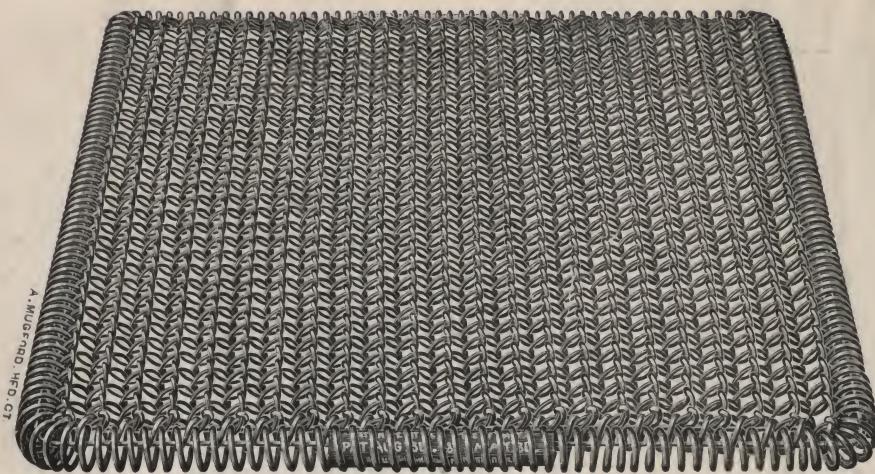


Fig. 37.

THE "HARTMAN" FLEXIBLE WIRE DOOR MAT.

This famous Mat is made of the best Galvanized Steel Wire, in a *double fabric*, and is the only Mat in the world so made. **Each side of the Mat is a counterpart of the other**, the wires being so woven as to form a ridge that removes mud, snow, ice, etc., from the boot, without injury to the sole. Its **flexibility** renders it capable of conforming with any uneven surface without warping the Mat. In **effectiveness, durability, neatness** and **cleanliness**, this Mat is unrivaled for use in *private dwellings, schools, churches, public buildings, railroad stations*, and all entrances requiring the use of a device for leaving dirt where it belongs—outside. It is likewise an excellent Mat for street cars.



Fig. 38.

THE "HARTMAN" FLEXIBLE WIRE COUNTER MAT.

Superior in every way to any other Counter Mat, whether of wire, rubber or other substances. Made to order in any length, and in any width from 18 inches to 4 feet. **Mats lettered if desired.**

For advertising purposes our **Lettered Door Mats** are the most admirable device ever invented. The sign or letters are woven in the mat. Furnished in any size in lots of 1,000 and upwards. Particulars given on application.

PRICE LIST.

(Subject to change without notice.)

"HARTMAN" FLEXIBLE STEEL WIRE MATS.

No. 2, Size, 16 x 24	Each, \$1.50
" 3, " 18 x 30	" 2.00
" 4, " 22 x 36	" 3.00
" 5, " 26 x 48	" 4.50
" 6, " 30 x 48	" 5.25

No. 7, Size, 36 x 48	Each, \$6.50
" 8, " 36 x 60	" 8.00
" 9, " 36 x 72	" 10.00
Special sizes, per square foot75
Enameled letters, each40

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